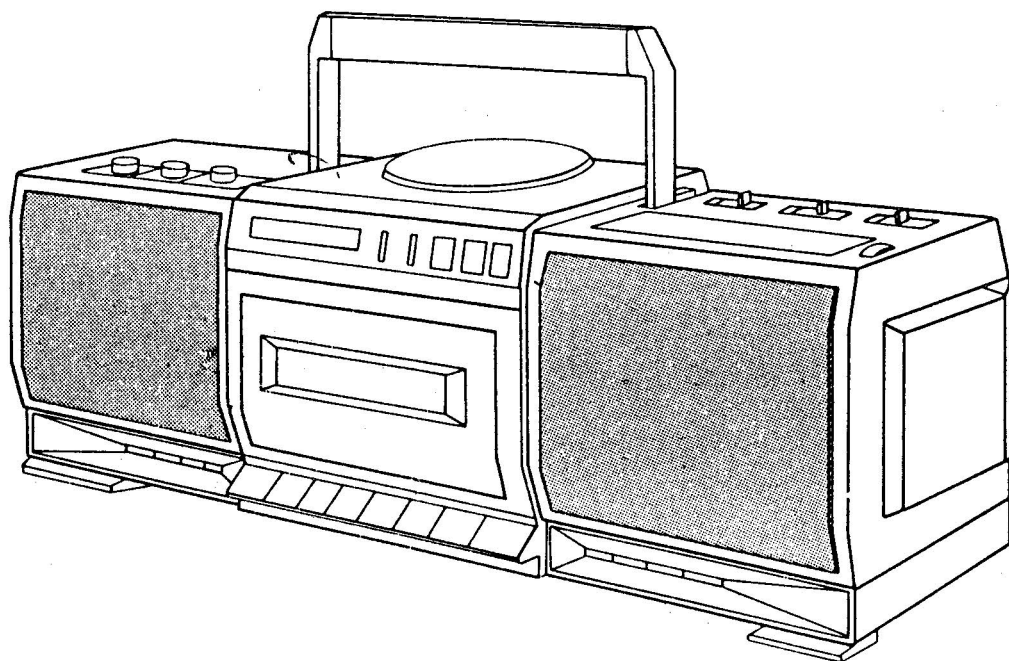


PRCD-66LS/US

Fashionable 4-band (FM-stereo/FM/MW/LW/SW) radio-cassette-recorder
with full-function CD-player, tone-/balance control and single-deck



TUNER

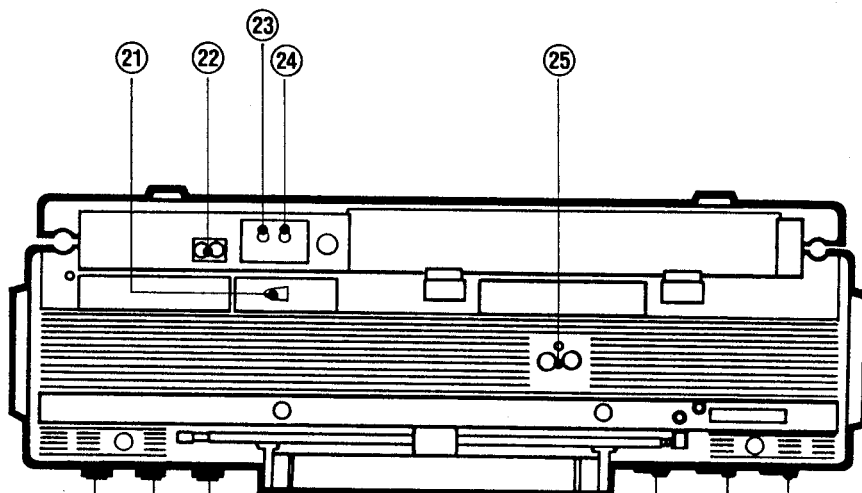
Receiving frequency	: FM : 88 MHz to 108 MHz
	MW: 530 kHz to 1605 kHz
	LW : 142 kHz to 283 kHz
	SW : 6 MHz to 16 MHz
Intermediate frequency	: FM : 10.7 MHz
	MW: 455 kHz, 465 kHz
	SW, FM: Telescopic antenna
	MW, LW: Ferrite-core antenna

GENERAL

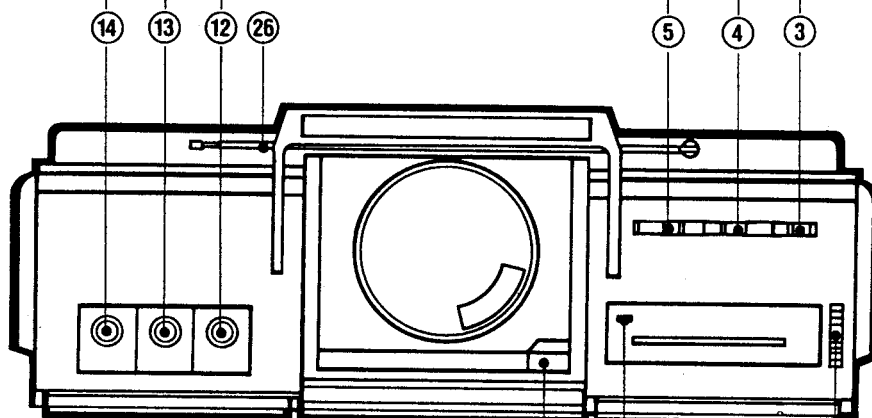
Speakers	: Dynamic woofer (4-inch) × 2)
Terminals	: PHONES jack × 1 CD OUT jack × 2 External DC jack × 1 (PRCD66US)
Power supply	: 220V, 50Hz (PRCD66LS) 230V, 50Hz (PRCD66US) DC 12V IEC R20 ("D" cell) × 8
Power consumption	: 15W
Dimensions (W × H × D)	: 510mm × 180mm × 170mm
Weight	: 3.8kg (without batteries)

1. OPERATING CONTROLS

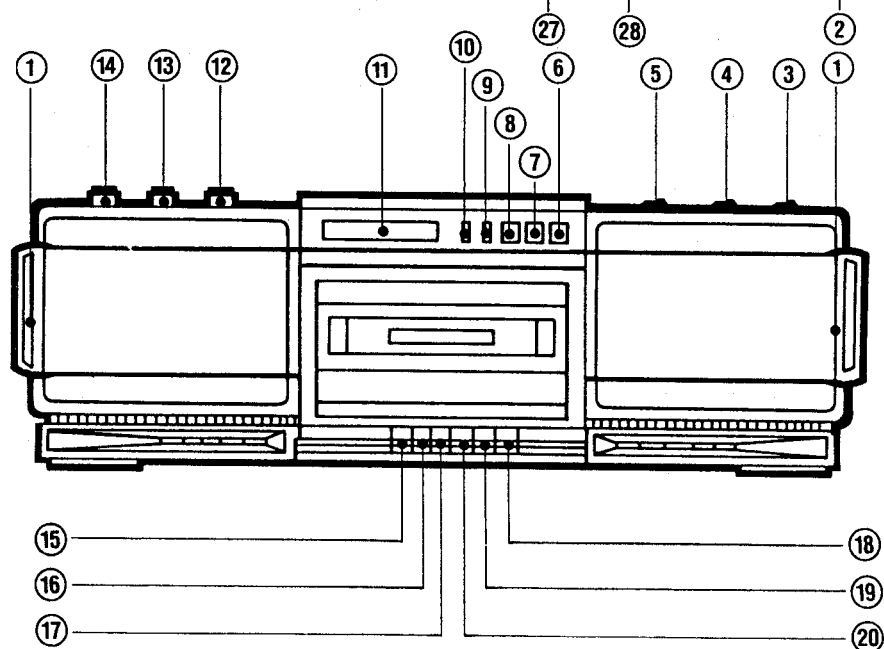
REAR



TOP



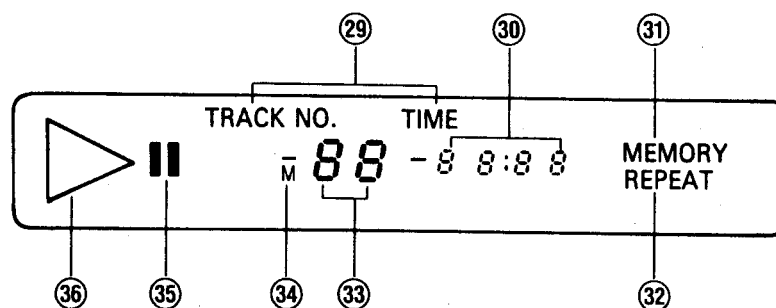
FRONT



■ CONTROL FUNCTIONS

- ① SPEAKERS
- ② TUNNING KNOB
- ③ BAND SELECTOR
- ④ BEAT CUT/MODE SELECTOR
- ⑤ FUNCTION SELECTOR
- ⑥ CD UP BUTTON
- ⑦ CD PLAY/REAPER BUTTON
- ⑧ CD DOWN BUTTON
- ⑨ CD PAUSE/STOP/MEMORY BUTTON
- ⑩ CD DISPLAY SECTION
- ⑪ CD DISPLAY SECTION
- ⑫ VOLUME CONTROL
- ⑬ BALANCE CONTROL
- ⑭ TONE CONTROL
- ⑮ RECORD BUTTON
- ⑯ PLAY BUTTON
- ⑰ REWIND BUTTON
- ⑱ FF BUTTON
- ⑲ STOP/EJECT BUTTON
- ⑳ PAUSE BUTTON
- ㉑ EXTERNAL DC JACK (PRCD66US)
- ㉒ AC POWER SOCKET
- ㉓ PHONE JACK
- ㉔ MIC JACK
- ㉕ CD OUT JACKS
- ㉖ FM ANTENNA
- ㉗ CD OPEN BUTTON
- ㉘ FM STEREO INDICATOR

■ DISPLAY SECTION



②⑨ Indicator

Lights when the DISPLAY button is pressed to switch to the remaining no. of tracks/remaining disc playing time display mode.

③⑩ Time Indicator

Shows either the elapsed track playing time or remaining disc playing time. When entering or checking memory contents, this indicator shows the memory program step number.

③① MEMORY Indicator

Flashes on and off while a memory play sequence is being entered or read out and remains lit when memory input has been completed and during memory disc play.

③② REPEAT Indicator

Lights during repeat disc play.

③③ TRACK NO. Indicator

Shows either the number of the track currently being played or the remaining number of tracks on the disc.

③④ M Indicator

Lights during memory disc play.

③⑤ PAUSE Indicator

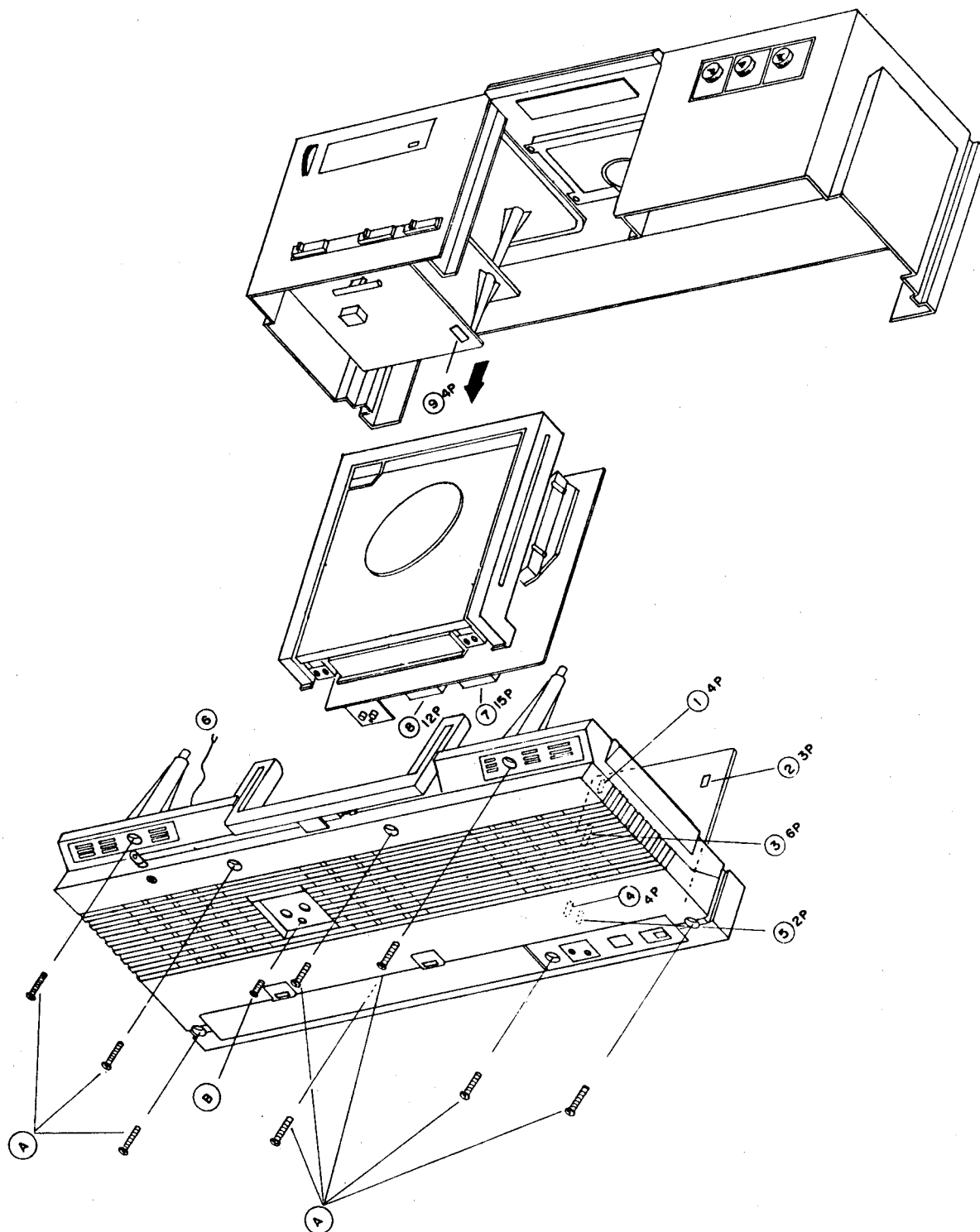
Flashes on and off when the pause-mode is activated.

③⑥ PLAY Indicator

Lights when a disc is being played.

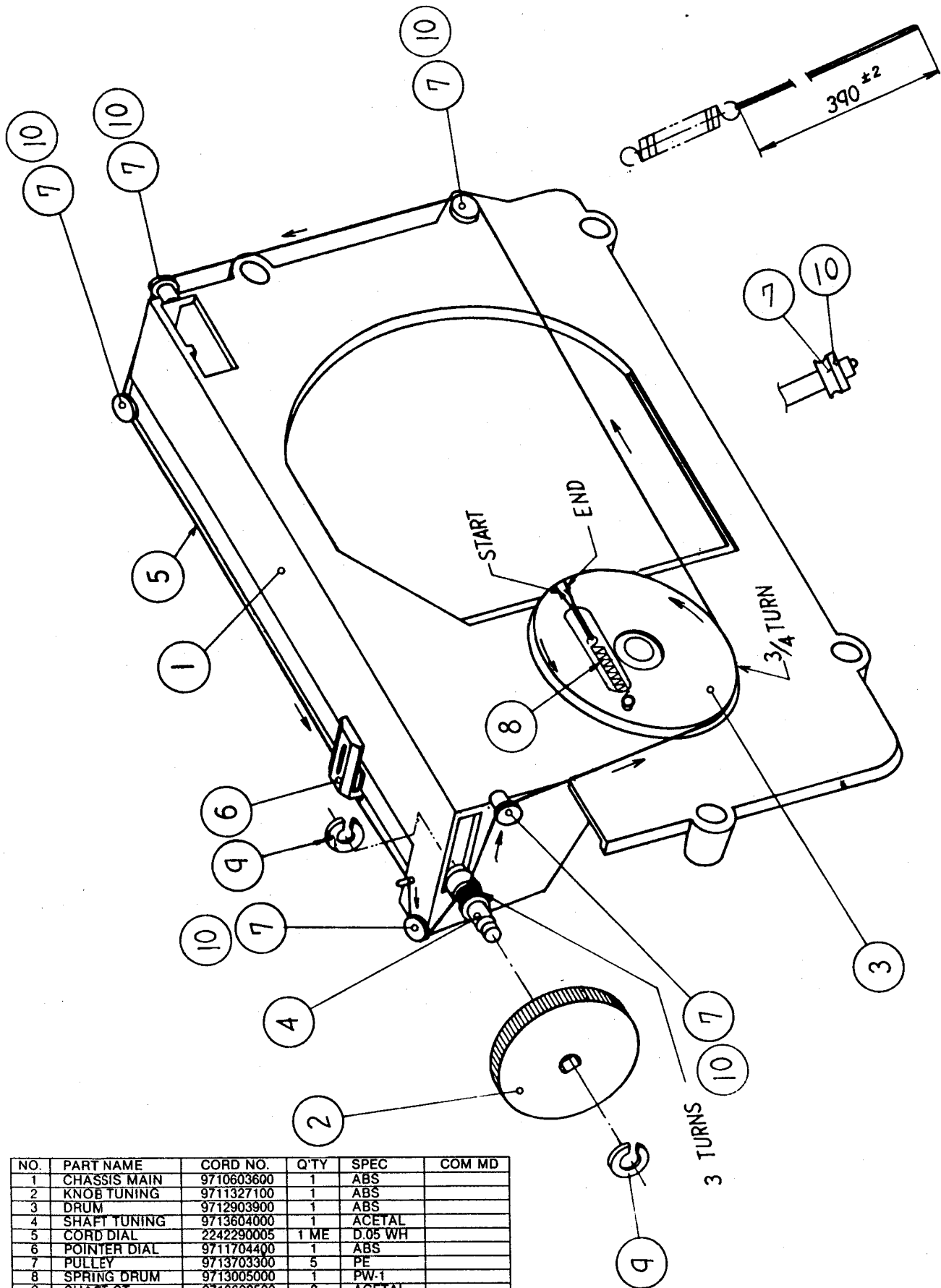
CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

2. DISASSEMBLY INSTRUCTIONS



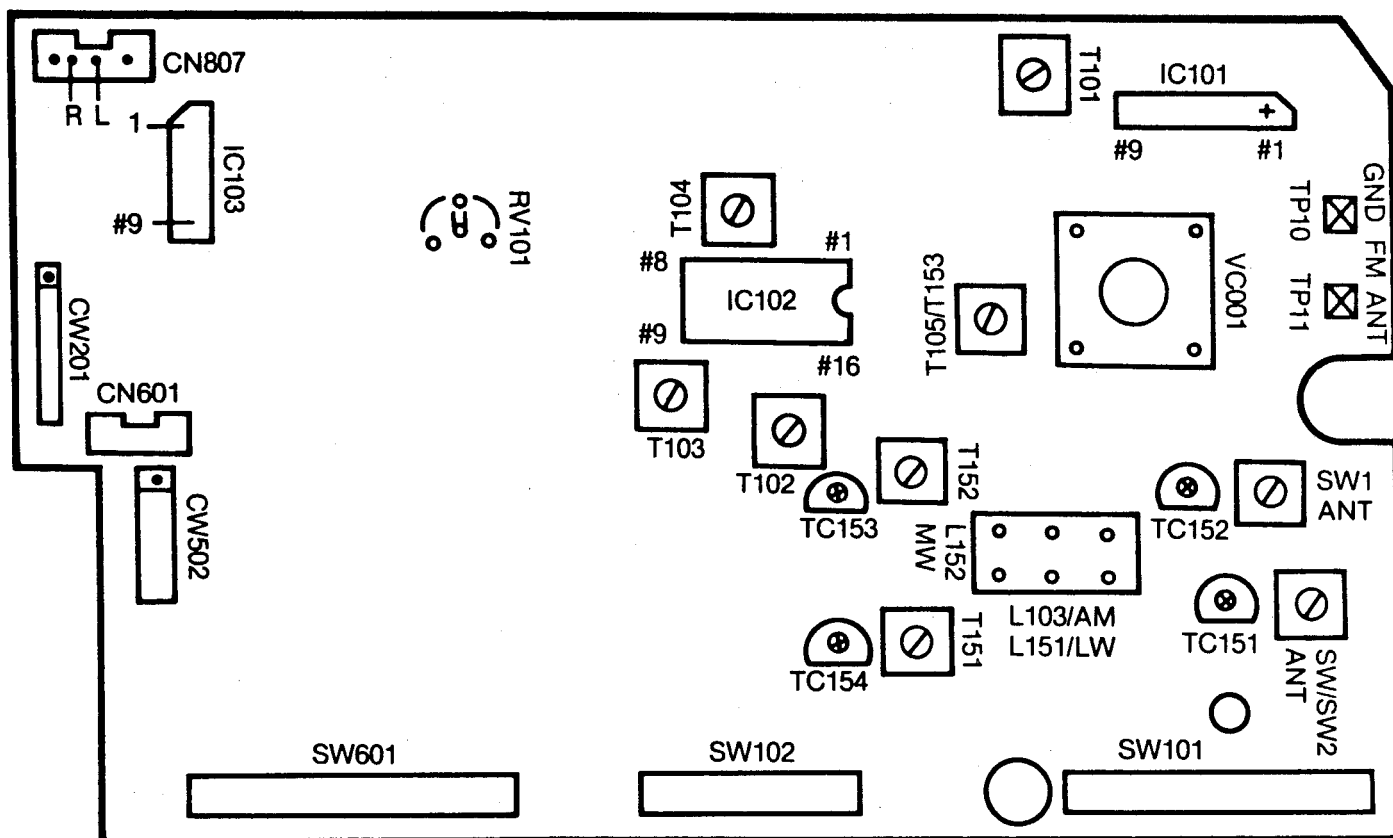
- (1) Remove eight screws (3×20mm) A.
- (2) Remove one screw (3×10mm) B.
- (3) After slightly separate the back cabinet from the front cabinet. Remove the connectes assemblies 1 (4P), 2 (3P), 3 (6P), 4 (4P) 5 (2P) and 6 (antenna pin) then completely remove the back cabinet.
- (4) After remove the conectors, 7 (15P), 8 (12P) and 9 (4P) seperate the top cabinet from the front cabinet in the direction of arrow.

3. DIAL CORD RESTRING



4. ADJUSTMENTS

■ TUNER SECTION



■ RADIO TUNER ADJUSTMENT

TEST EQUIPMENT

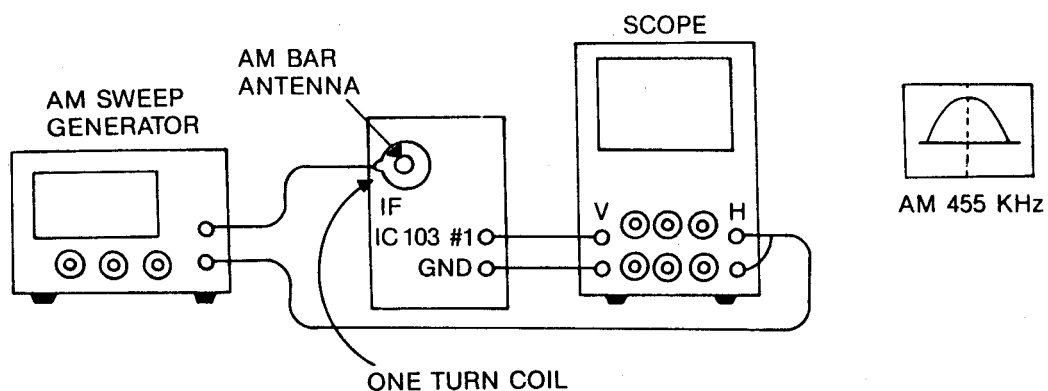
1. Signal generator with a frequency range of at least from 450 kHz to 23 MHz AM.
2. Oscilloscope with a side amplifier of approximately 100 kHz.
3. Test loop—a coil of any size wire, one turn or more. (MW, LW)
4. A 30 ohm dummy antenna.
5. VTVM.

AM ALIGNMENT

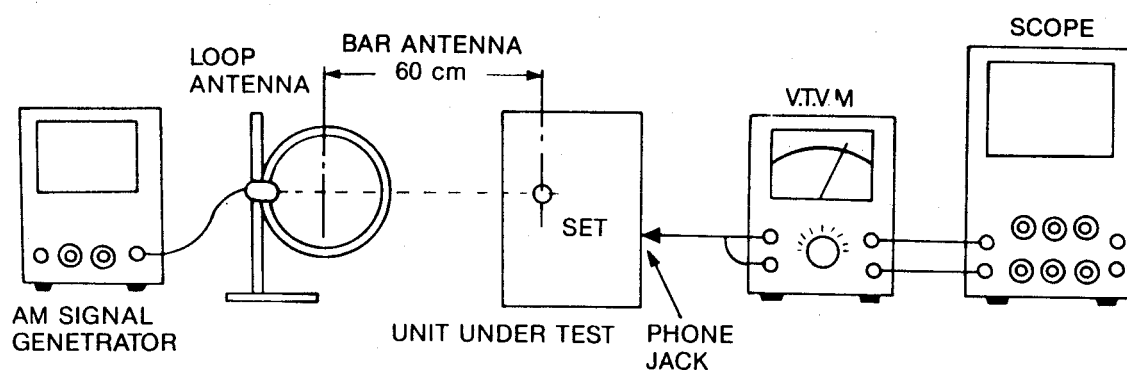
1. Turn on the AM signal generator and the VTVM allowing a fifteen-minute warm-up period.
2. Using the test loop across the output of the signal generator, inductively connect the signal generator to the radio.
3. Connect the VTVM across the headphone jack.
4. Set signal generator frequency as listed in ALIGNMENT CHART and maintain a sufficient output level to provide an indication on VTVM.

NOTE: 1. Use a screwdriver with plastic grip for all adjustments.
 2. Standard test frequency 400 Hz and modulation 30% for AM.
 3. Standard test frequency 400 Hz and deviation 22.5 kHz for FM.

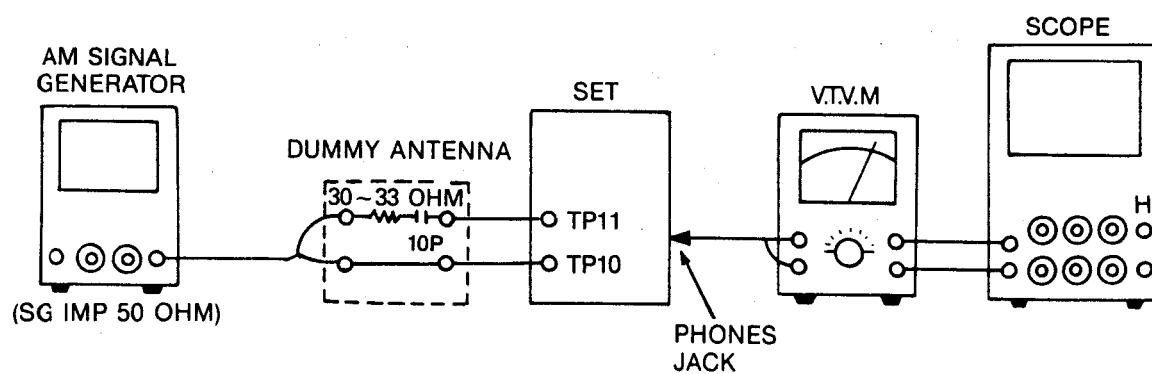
MW IF ALIGNMENT



MW, LW ALIGNMENT



SW ALIGNMENT



MW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
IF	1	455 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	T102, T104	Adjust for maximum indication.
MW	2	520 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	Osc. Coil T105	Adjust for maximum indication.
	3	1630 kHz	Tuning Gang Fully Clockwise (Highest Frequency)	Osc. Trim. TC4	Adjust for maximum indication.
	4	Repeat steps 2 and 3 as required.			
	5	600 kHz	Tune to Signal.	Ant. Coil L103	Adjust for maximum indication.
	6	1400 kHz	Tune to Signal.	Ant. Trim. TC3	Adjust for maximum indication.
	7	Repeat steps 5 and 6 as required.			

LW, SW AM ALIGNMENT CHART

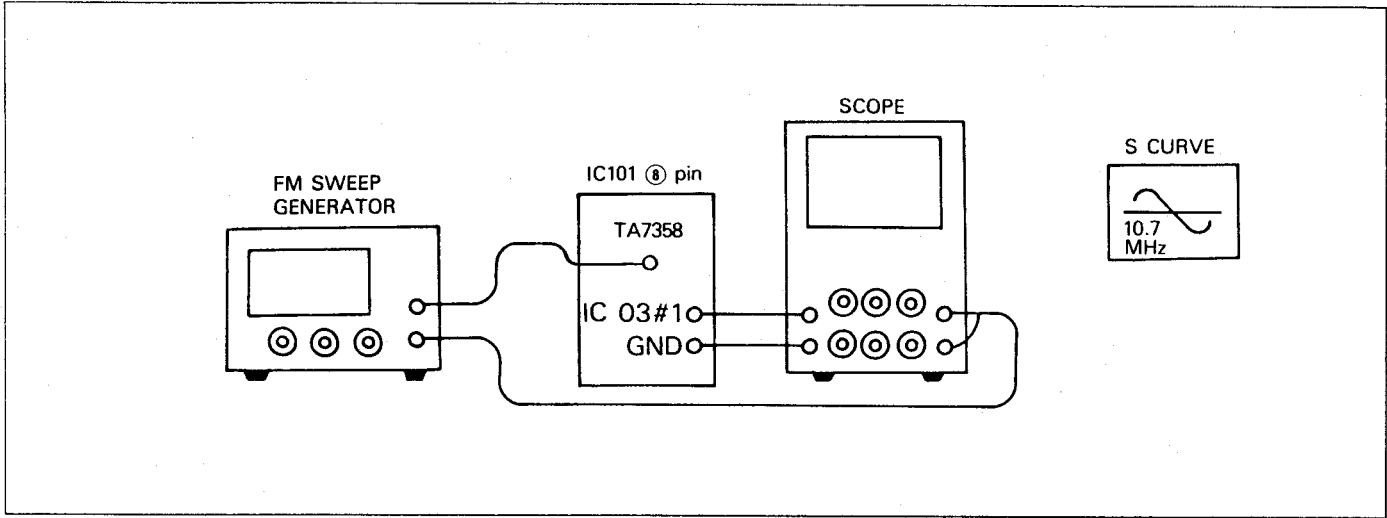
Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
LW	1	142 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	Osc. Coil T152	Adjust for maximum indication.
	2	283 kHz	Tuning Gang Fully Counter-clockwise (Highest Frequency)	Osc. Trim TC153	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	142 kHz	Tune to Signal.	Ant. Coil L151	Adjust for maximum indication.
	5	283 kHz	Tune to Signal.	Ant. Trim. TC152	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			
SW	1	5.8 MHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	Osc. Coil T151	Adjust for maximum indication.
	2	16.5 MHz	Tuning Gang Fully Counter-clockwise (Highest Frequency)	Osc. Trim. TC154	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	7 MHz	Tune to Signal.	Ant. Coil L150	Adjust for maximum indication.
	5	14 MHz	Tune to Signal.	Ant. Trim. TC151	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			

FM-IF ALIGNMENT

- 1. Set the select to FM position.
- 2. Turn on both sweep generator and oscilloscope, and allow a fifteen-minute warm-up period.

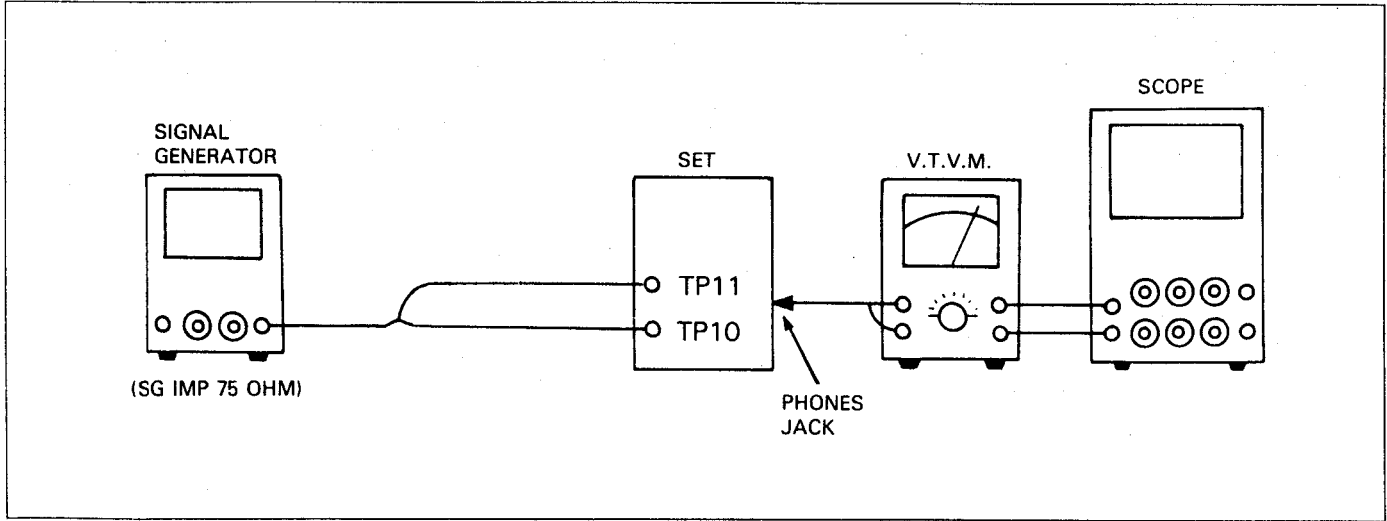
FM-IF ALIGNMENT CHART

Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
1	10.7 MHz	Tuning Gang Fully Counter clockwise (Lowest Frequency)	T101 T103	Adjust for maximum indication.



FM-RF ALIGNMENT

- 1. Turn on the signal generator and the VTVM, and allow a fifteen-minute warm-up period.
- 2. Connect the signal generator output through a 75 ohm dummy antenna across FM ANT.
- 3. Connect the VTVM across the voice coil or the phones jack.
- 4. Set the volume control to mid-position.
- 5. Adjust the signal generator frequency as indicated in FM-RF ALIGNMENT CHART, and maintain a sufficient signal output level to provide a measurable indication.
- 6. Proceed as outlined in the FM-RF ALIGNMENT CHART.

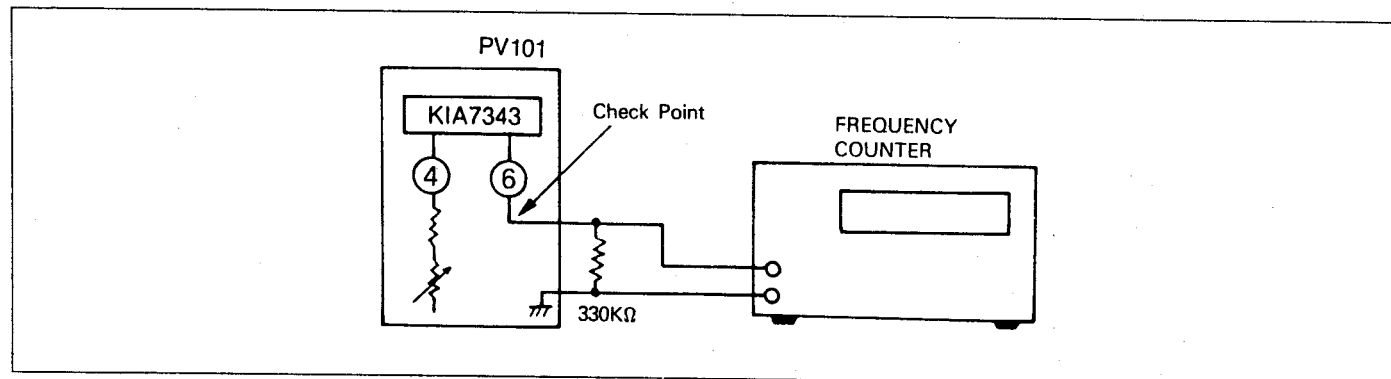


FM-RF ALIGNMENT CHART

Step	Signal Generator	Radio Dial Setting	Adjustment	Remarks
1	87.3 MHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	Osc. Coil L102	Adjust for maximum output indication.
2	108.3 MHz	Tuning Gang Fully Counter-clockwise (Highest Frequency)	Osc. Trim. TC2	Adjust for maximum output indication.
3	Repeat steps 1 and 2 as required.			
4	90 MHz	Tune to signal.	Ant. Coil L101	Adjust for maximum output indication.
5	106 MHz		Ant. Tirm. TC1	
6	Repeat steps 4 and 5 as required.			

FREE RUN FREQUENCY ALIGNMENT

Adjust TV101 under no signal condition so as to obtain $38 \text{ kHz} \pm 75 \text{ Hz}$.

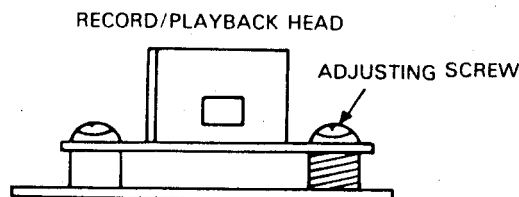


*RECORD/PLAYBACK HEAD ADJUSTMENT

8 kHz test tape must be used for this adjustment.

Connect to VTVM or an oscilloscope to the headphone jack or speaker terminal and adjust the azimuth by using a screwdriver to maintain the maximum output voltage.

RECORD/PLAYBACK HEAD
ADJUSTING SCREW



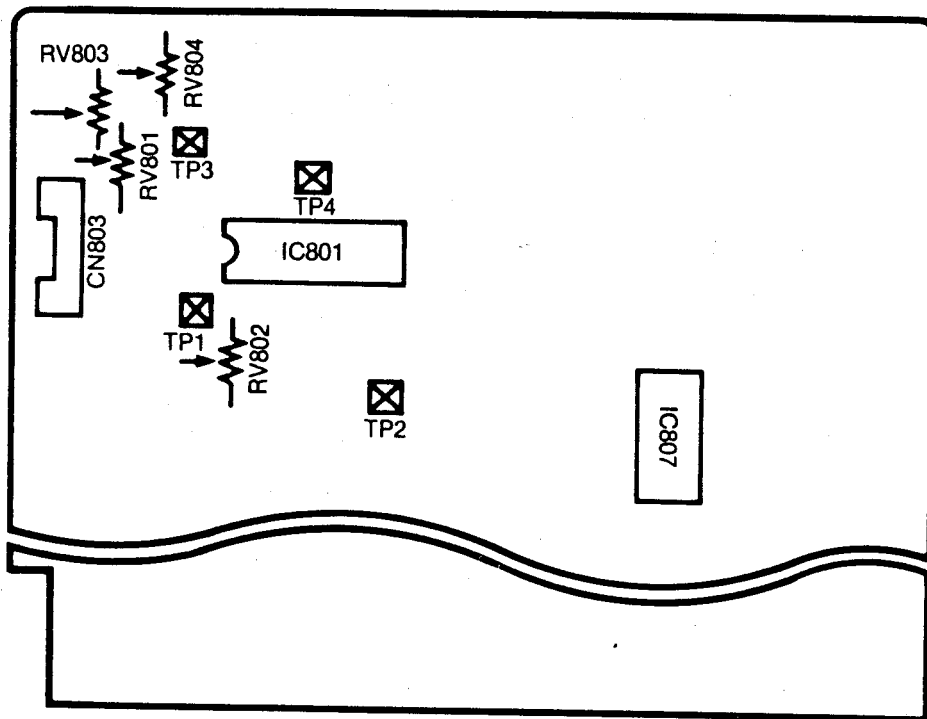
■ CD SECTION

RV802: Tracking Error Balance Adjustment

RV803: Focus Error Offset Adjustment

RV804: Tracking Error Offset Adjustment

■ LOCATION FOR ALIGNMENT OF CONTROL PARTS



TP1: VREF
 TP2: RF
 TP3: FEO
 TP4: TSO

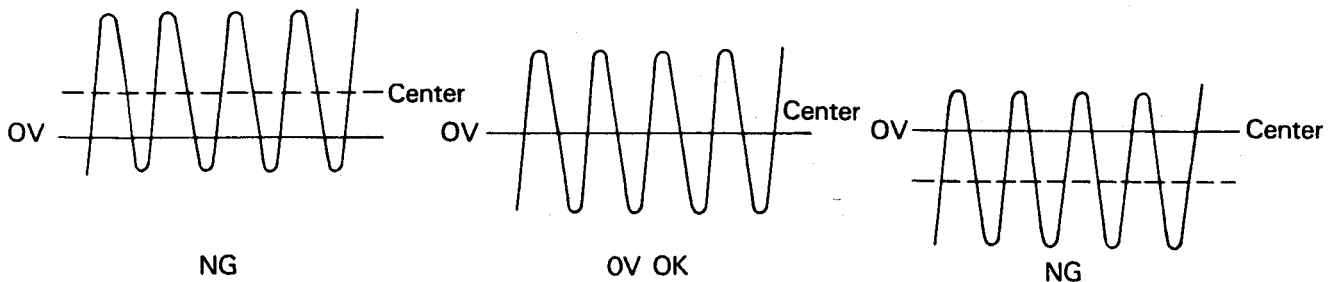
Before adjustment set all adjustment volume to center position.

1. Tracking error offset Focus error offset adjustment.

- 1) Connect oscilloscope to TP1 (GND) and TP4 (TSO).
 - * For tracking error offset adjustment and check: TP4
 - * For focus error offset adjustment and check: TP3
- 2) Function switch the CD position.
- 3) Turn ON the power switch.
- 4) Adjust RV804 (TE, OF) for TP4, RV803 (FO, OF) for TP3 so that 0V 0.05V is obtained with unit set to stop mode.

2. Tracking error balance adjustment.

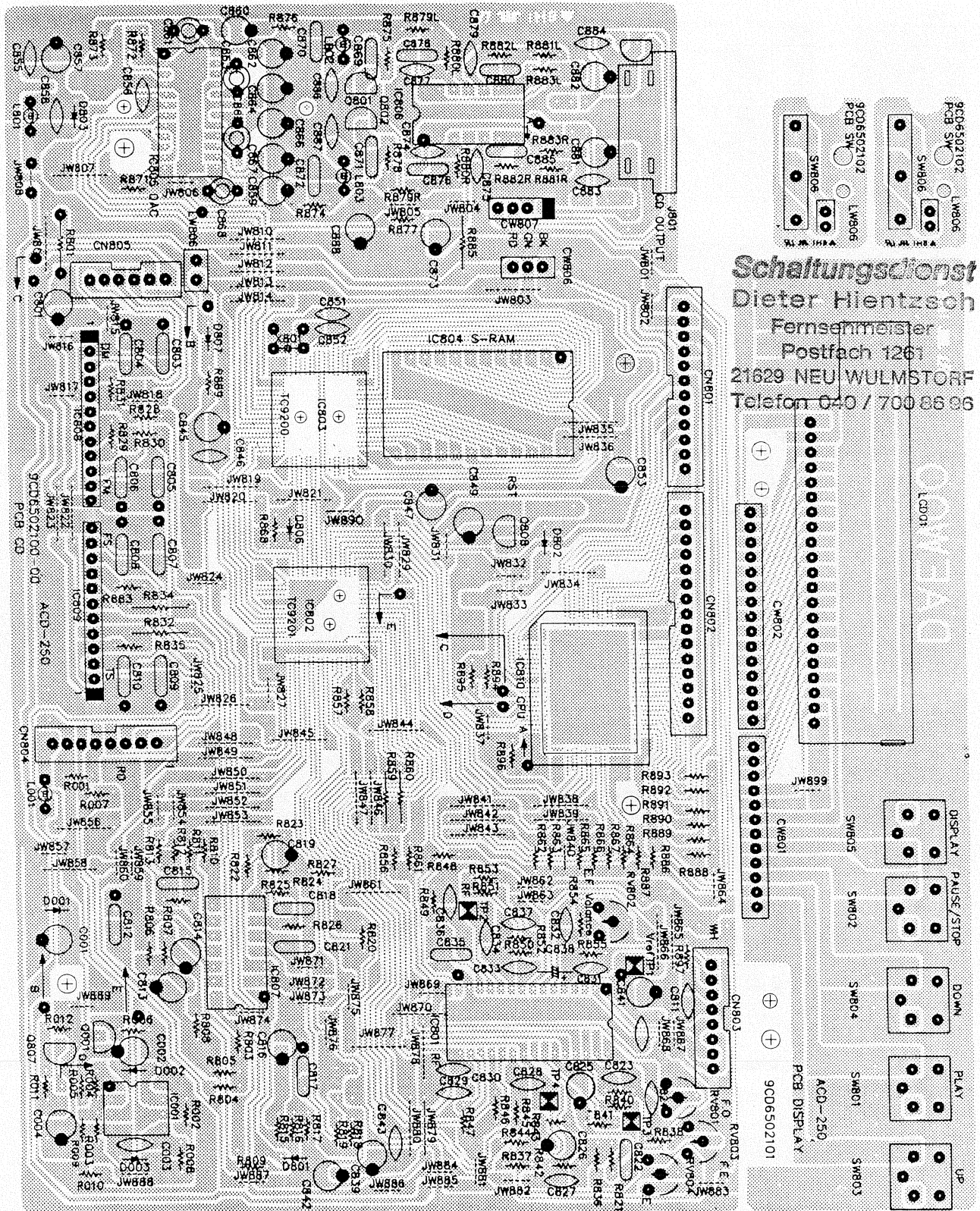
- 1) Connect oscilloscope to TP1 (GND) and TP4 (TSO).
- 2) Function switch the CD position.
- 3) Turn ON the power switch.
- 4) Adjust RV802 (TE, BA) so that tracking error signal obtains balanced waveform with up by pushed.



■ AUDIO SECTION

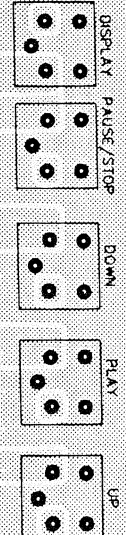


■ CD SECTION

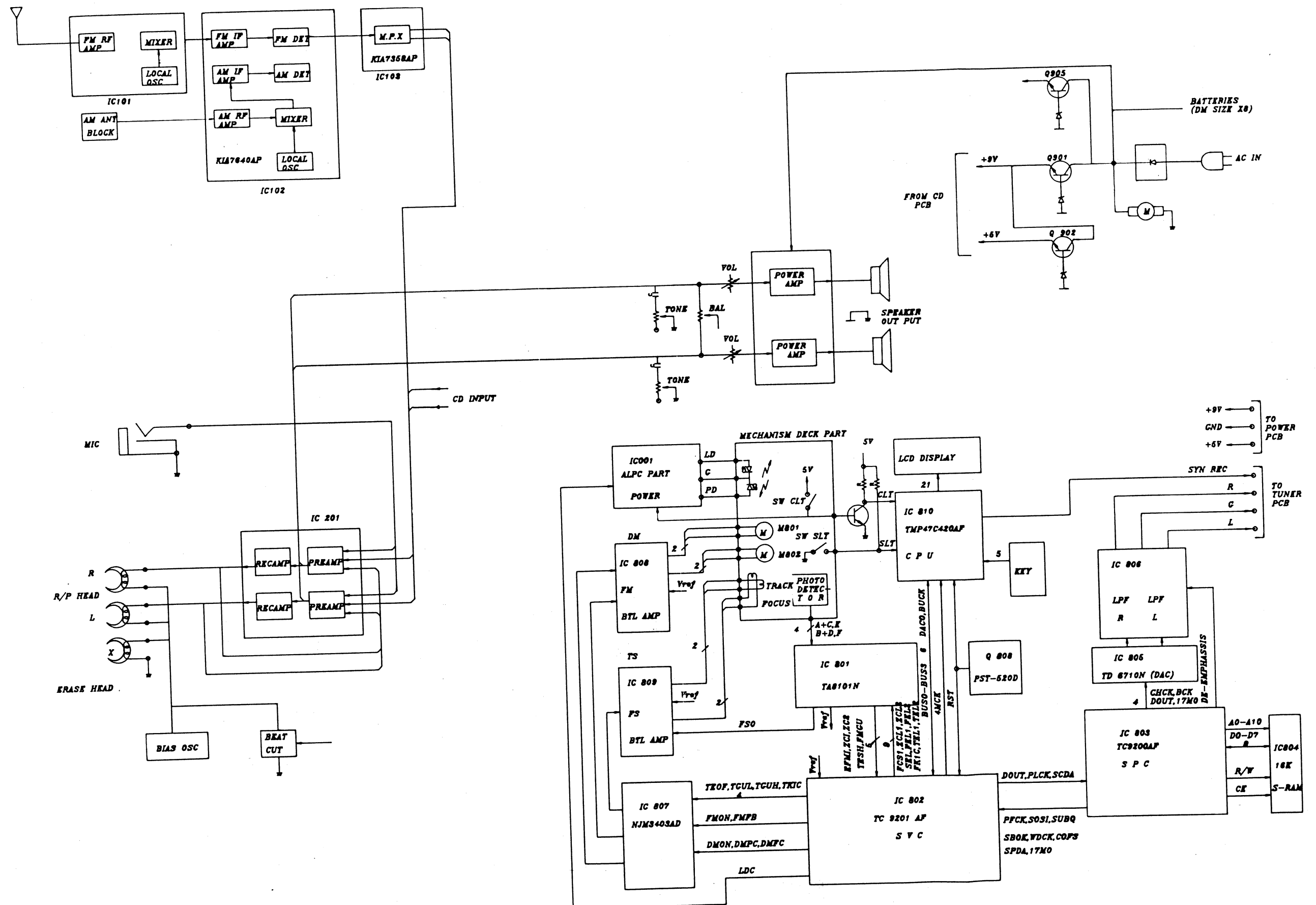


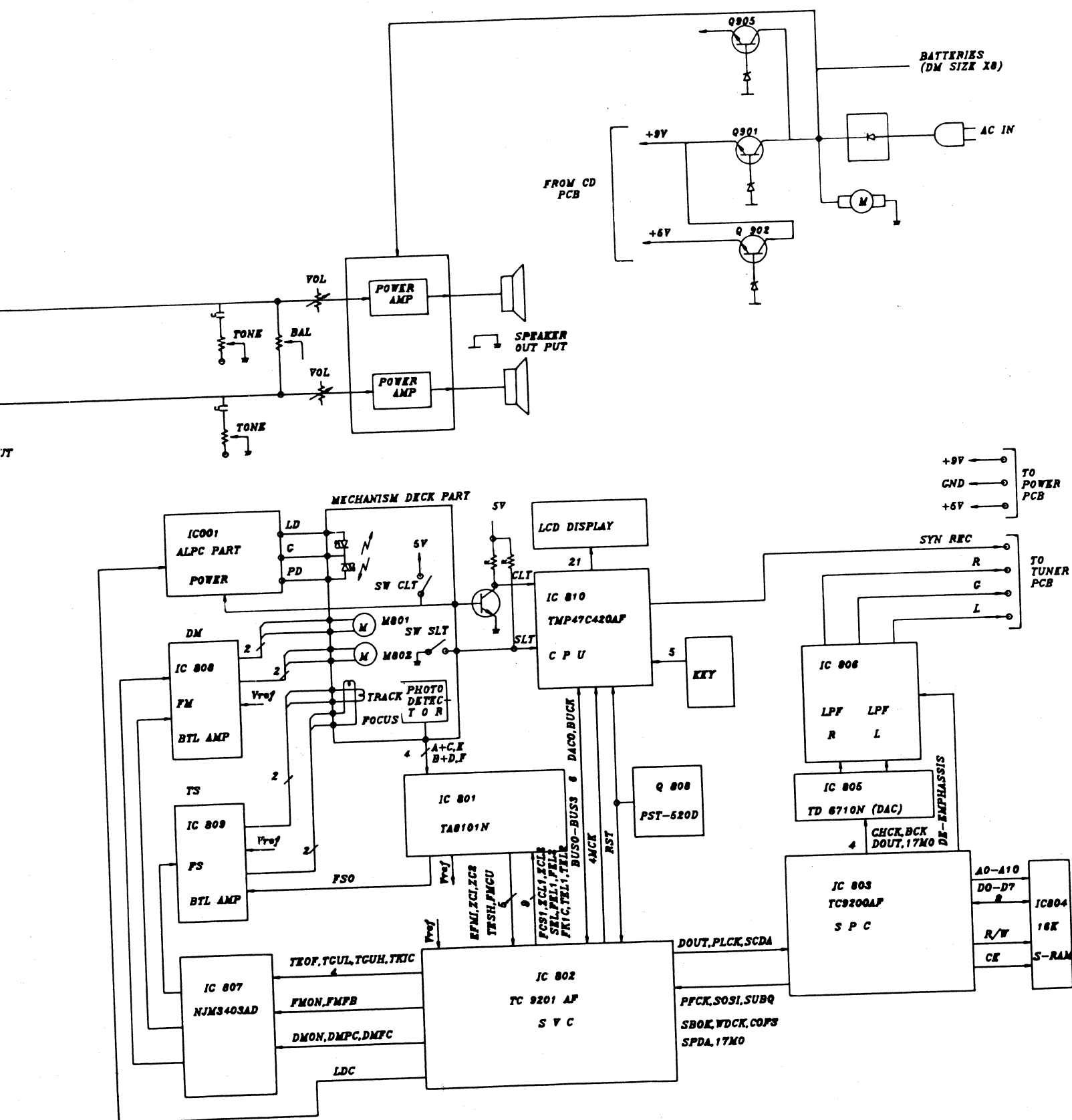
Schaltungsdienst
Dieter Hientzsch
Fernsehmeister
Postfach 1261
21629 NEUWULMSTORF
Telefon 040 / 700 88 96

CD001



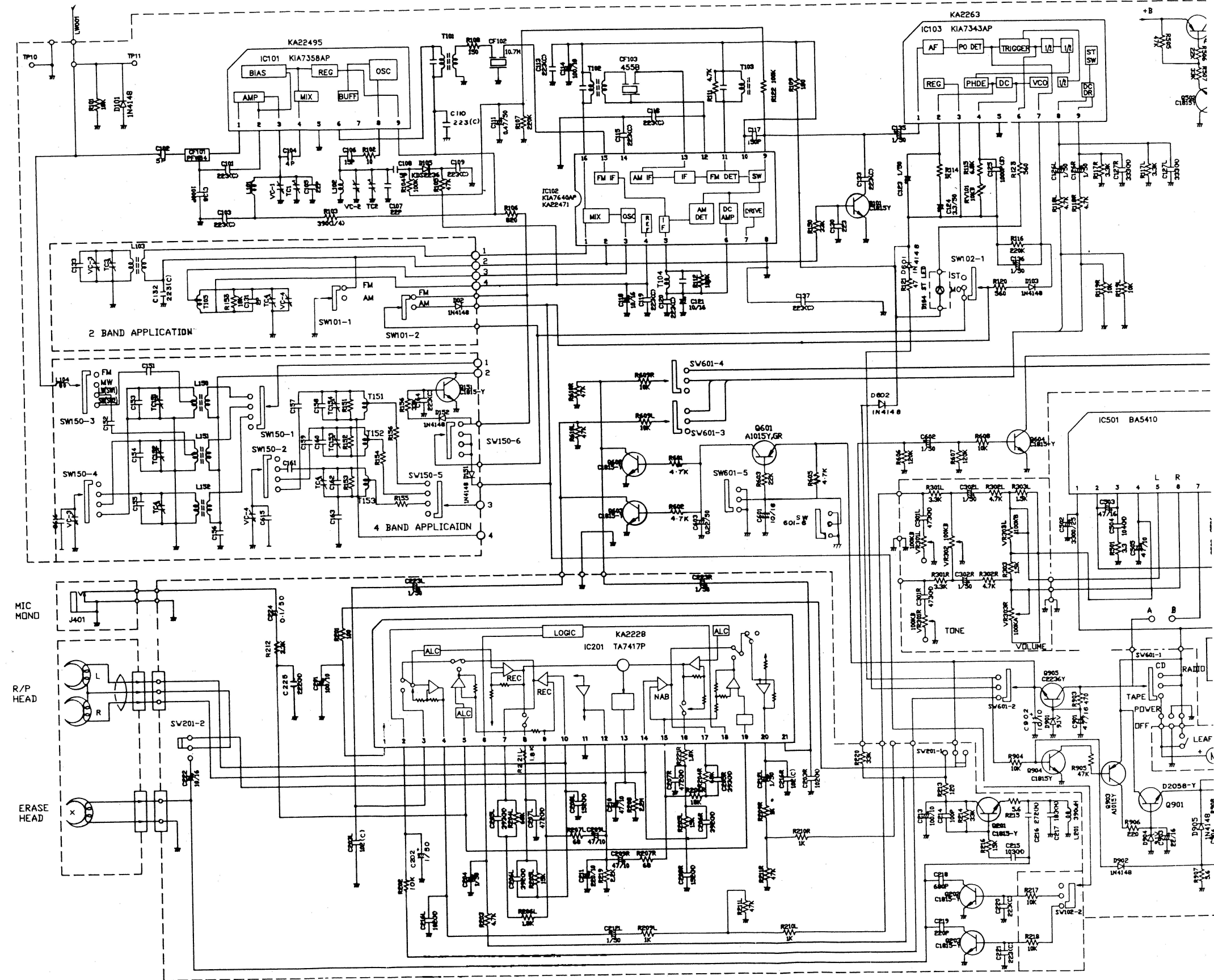
6. BLOCK DIAGRAM



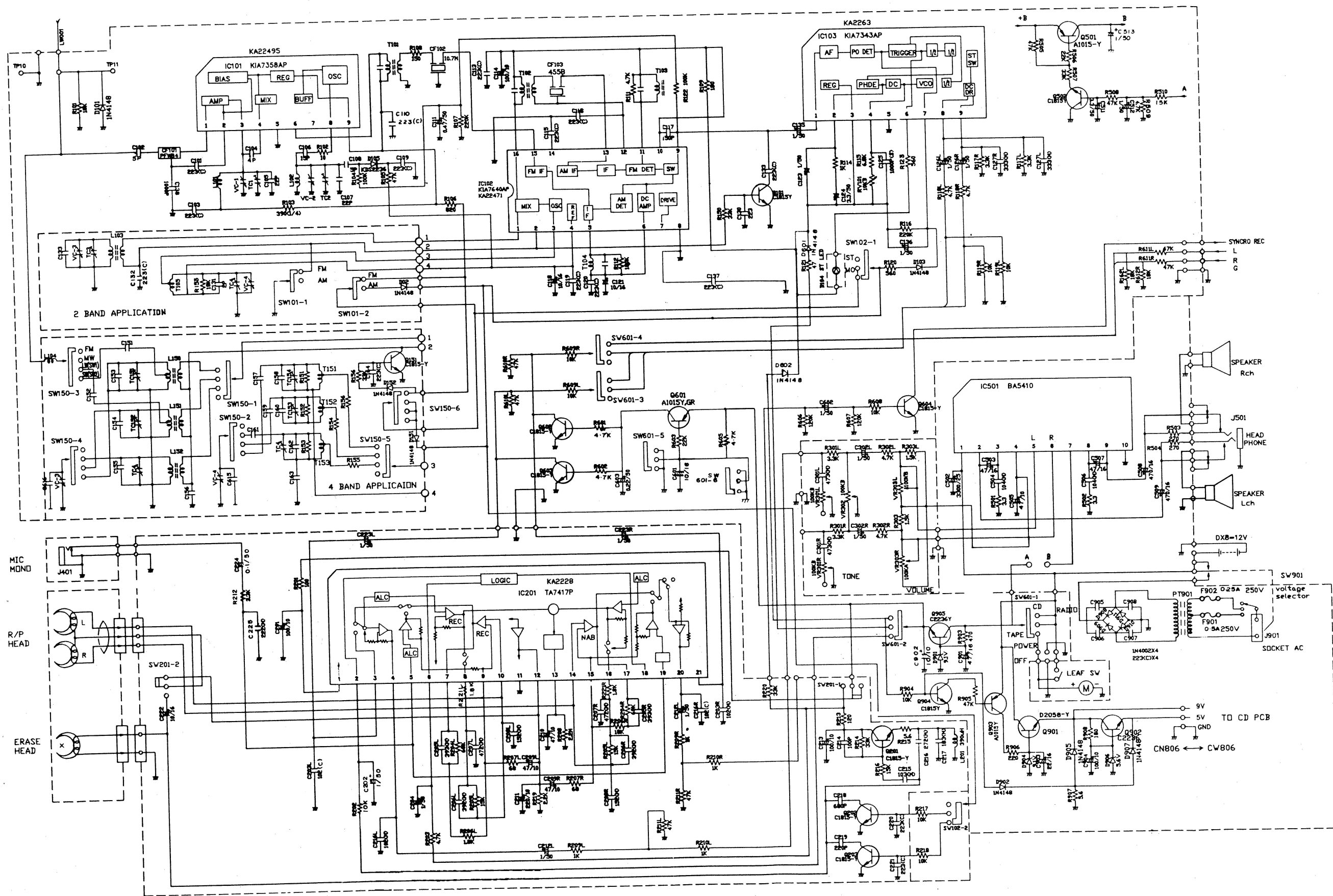


7. SCHEMATIC DIAGRAM

AUDIO SECTION

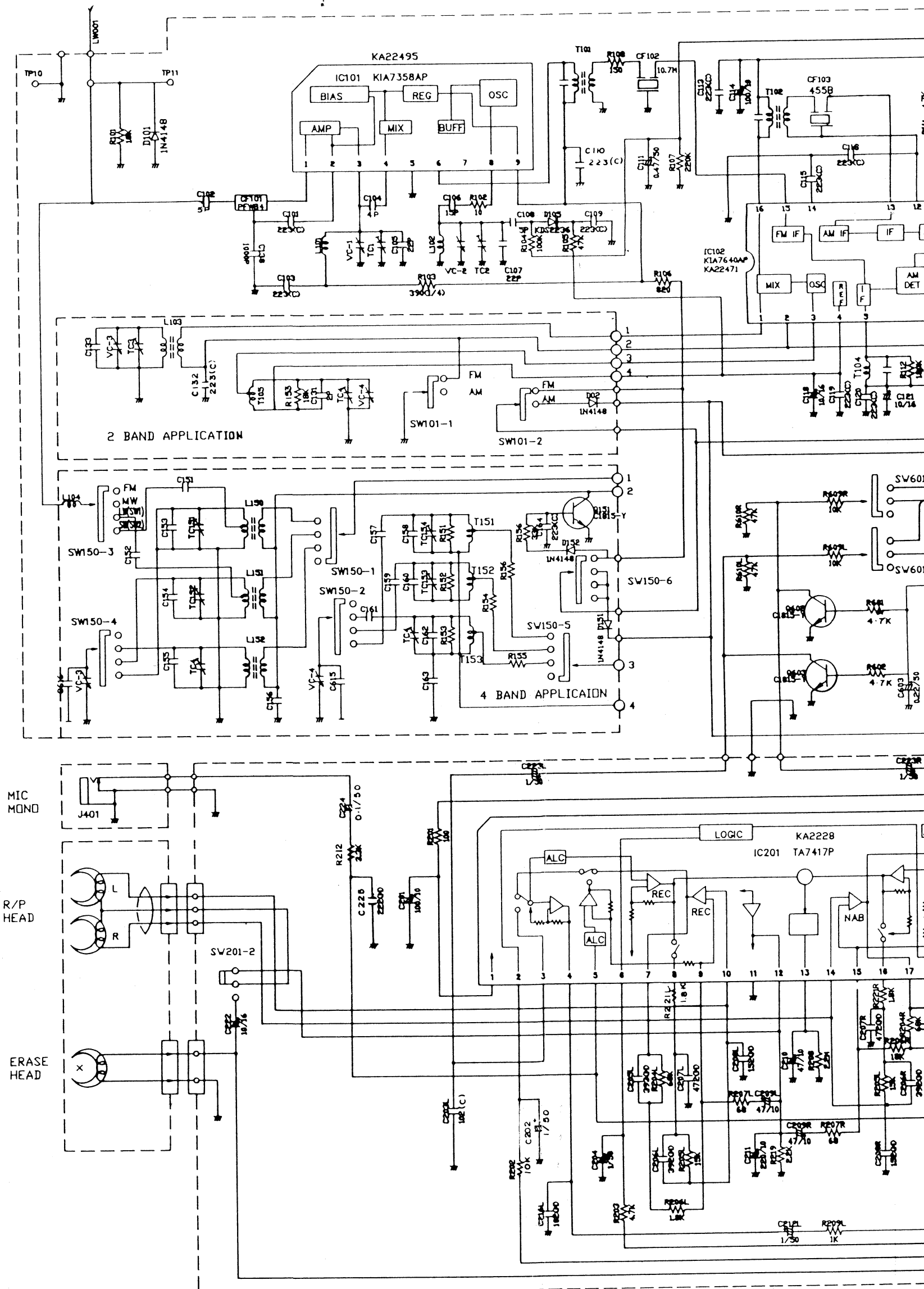


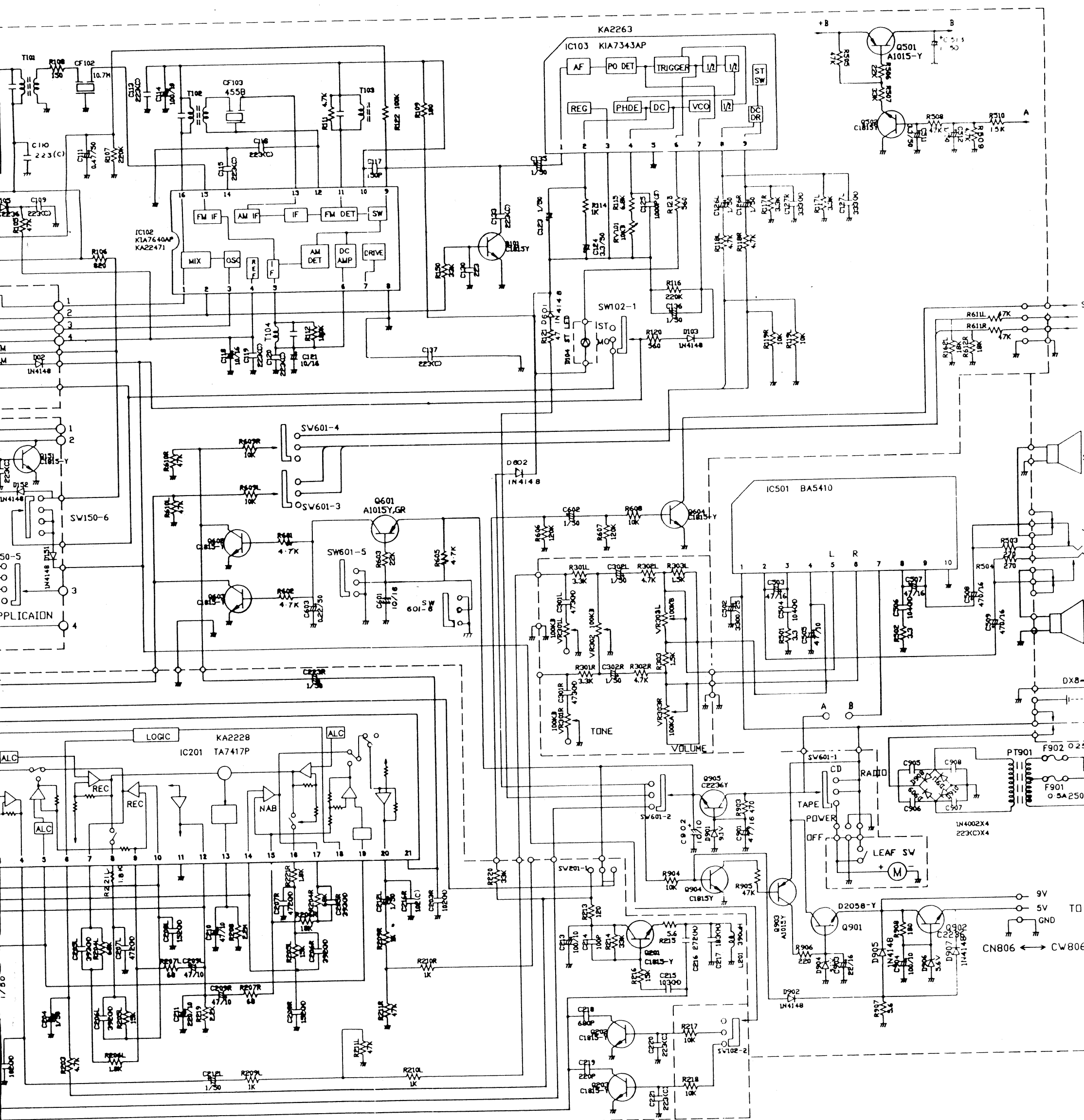
ATIC DIAGRAM
ION

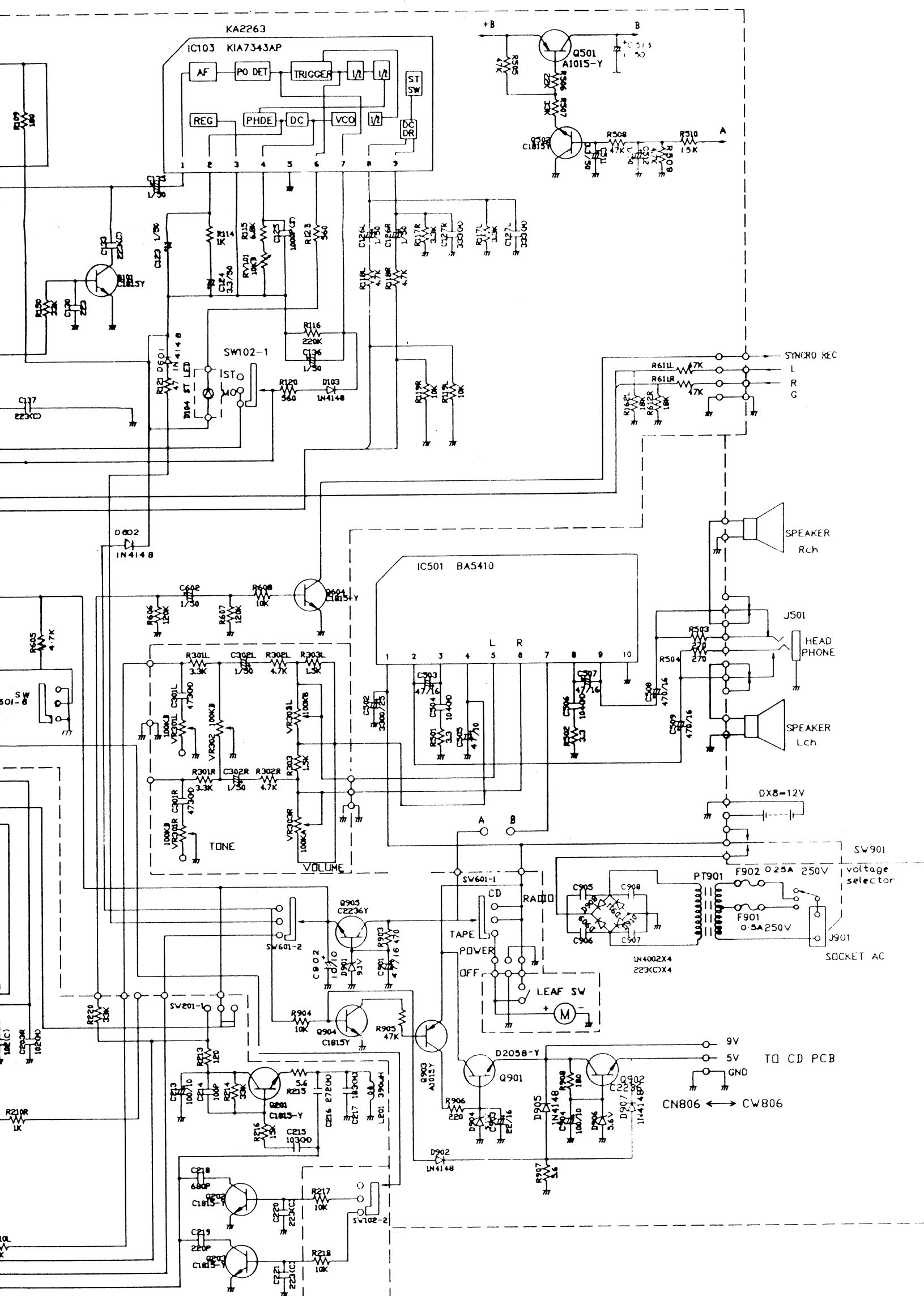


7. SCHEMATIC DIAGRAM

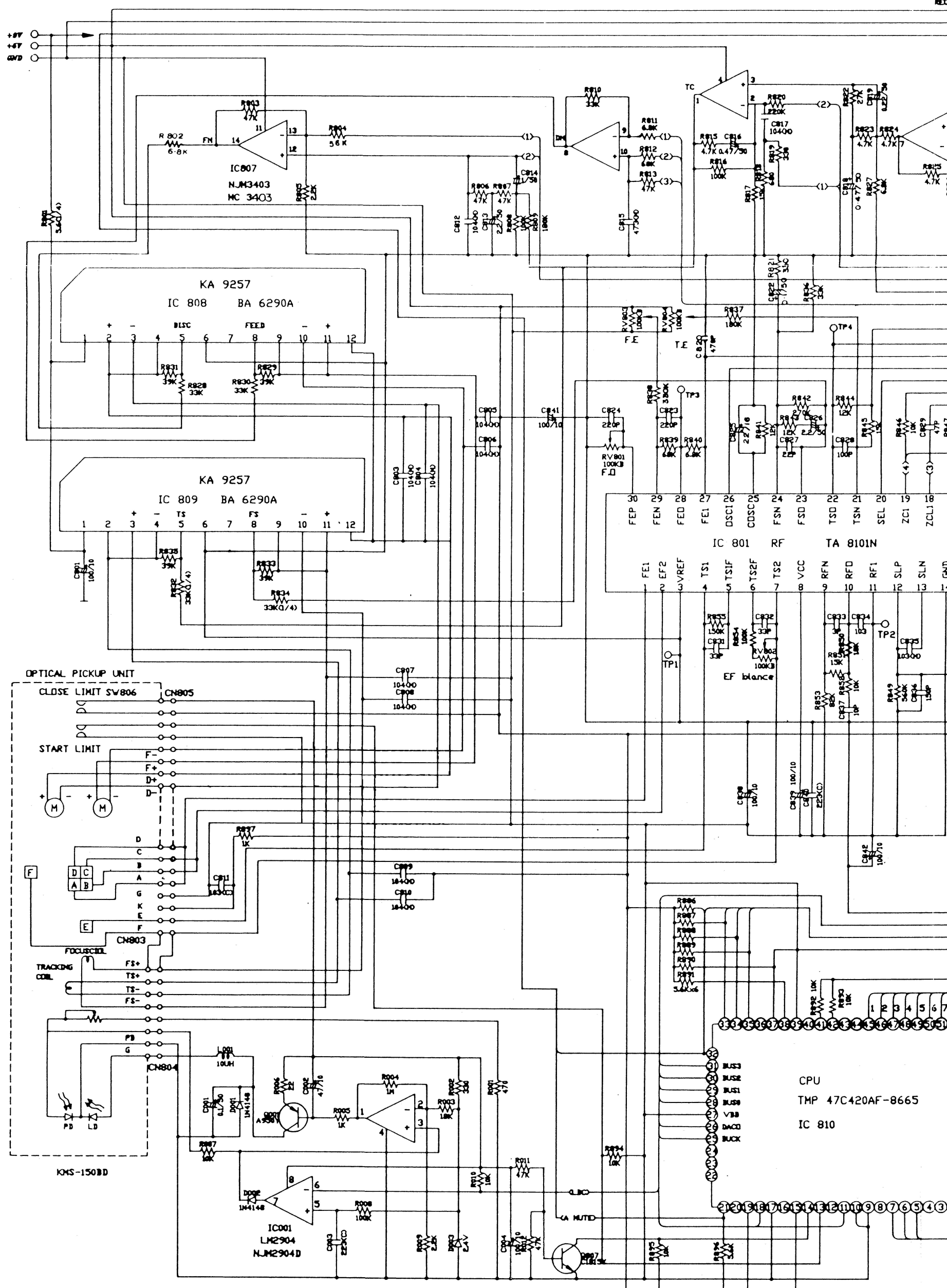
■ AUDIO SECTION

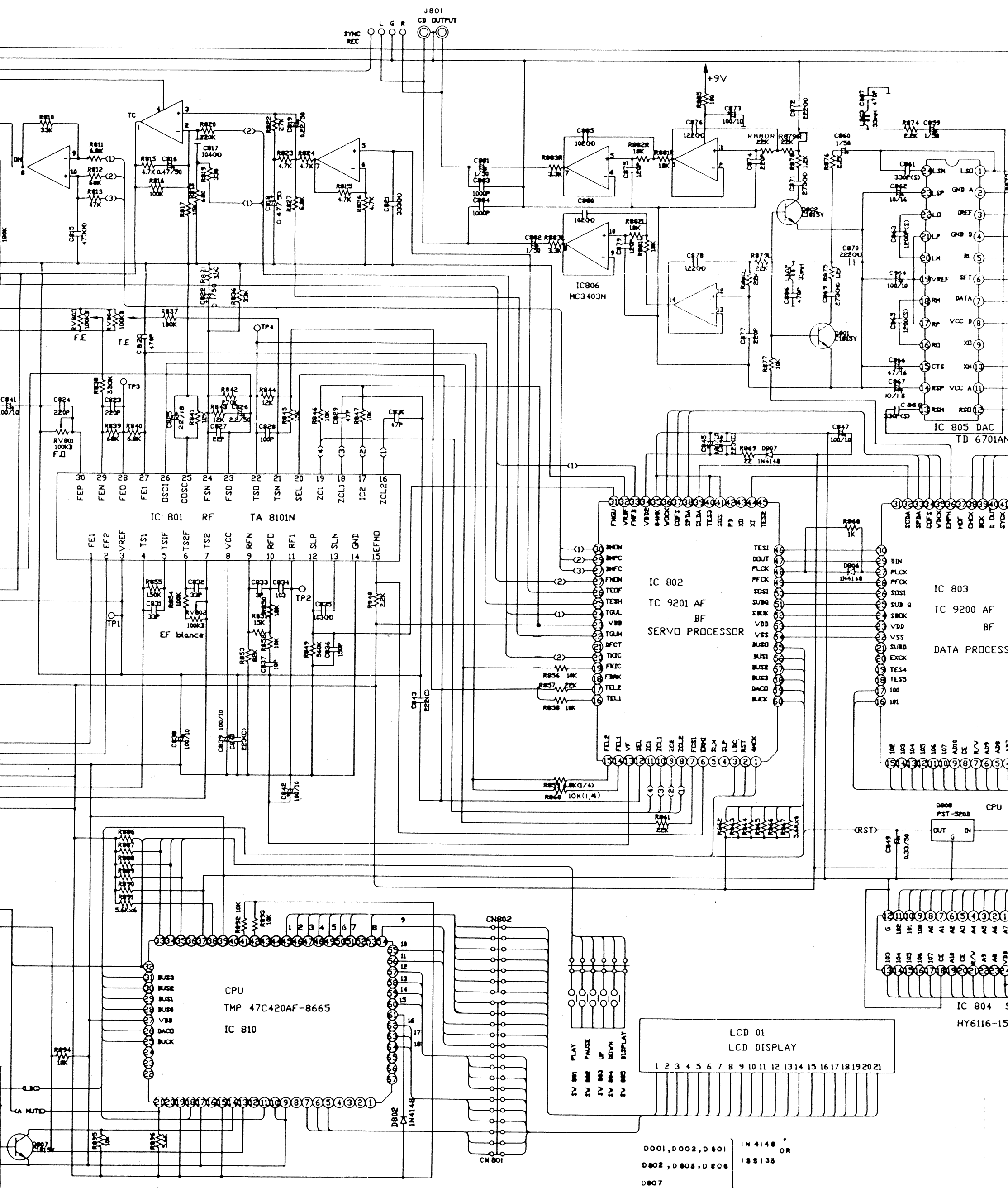


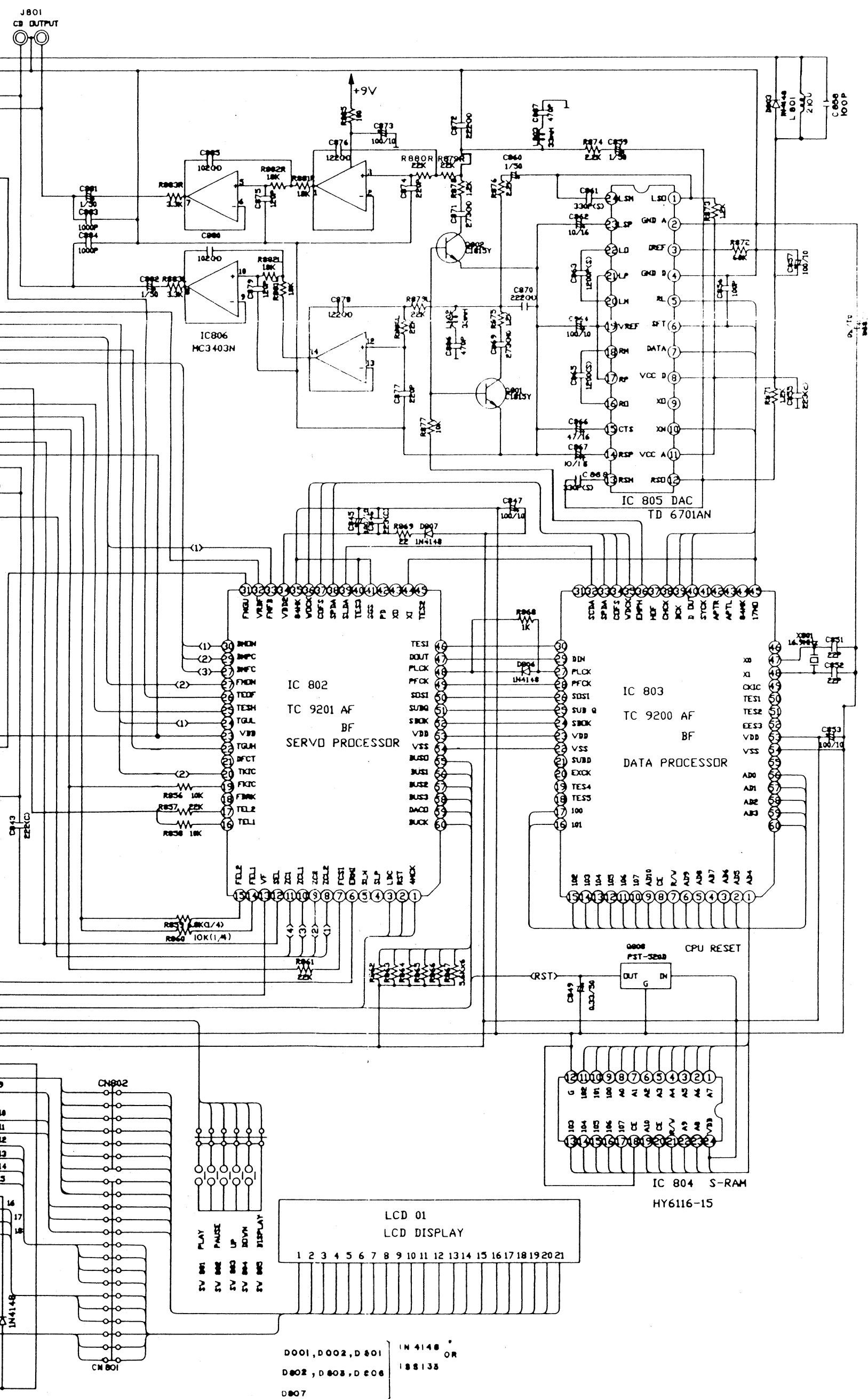




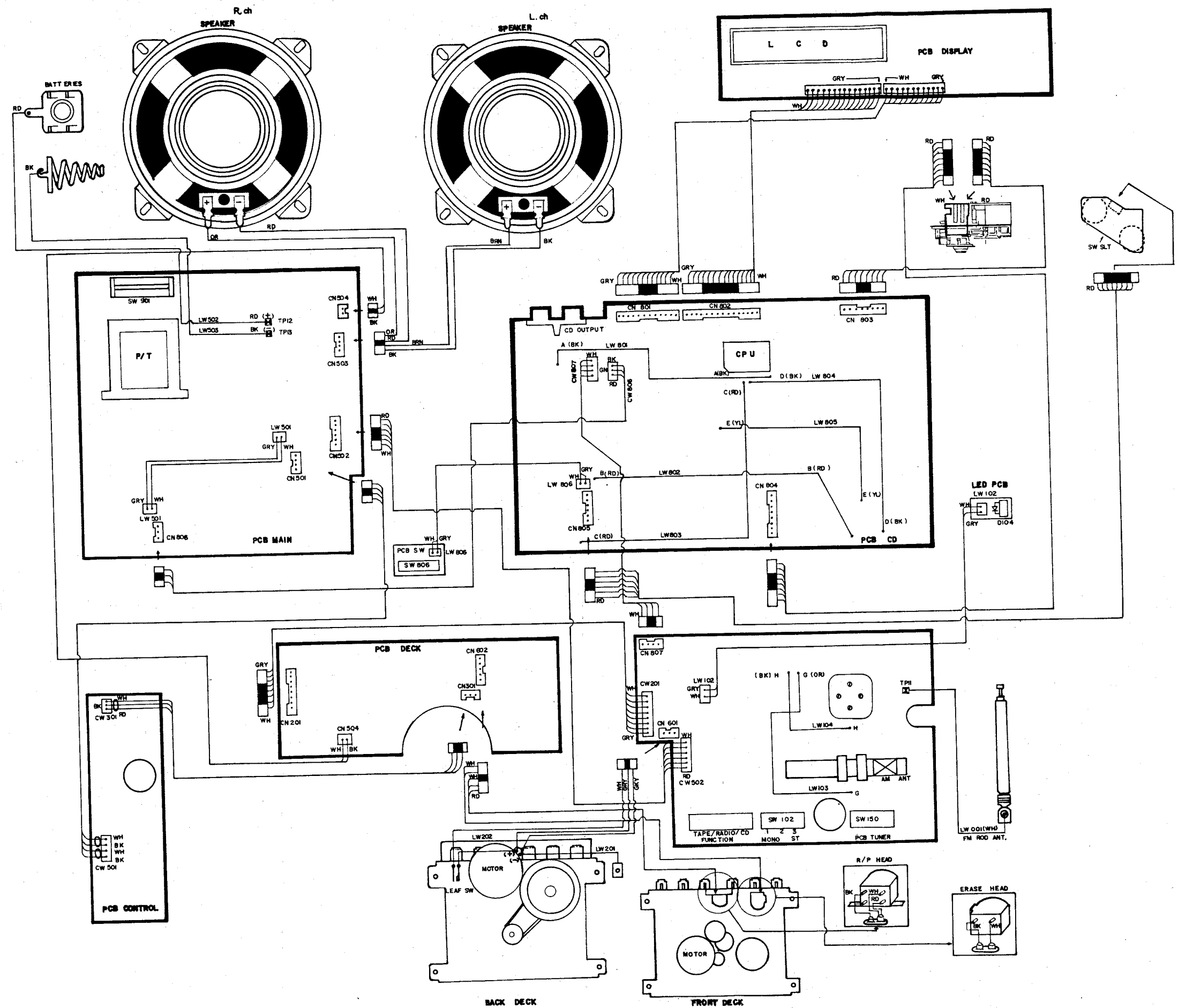
CD SECTION





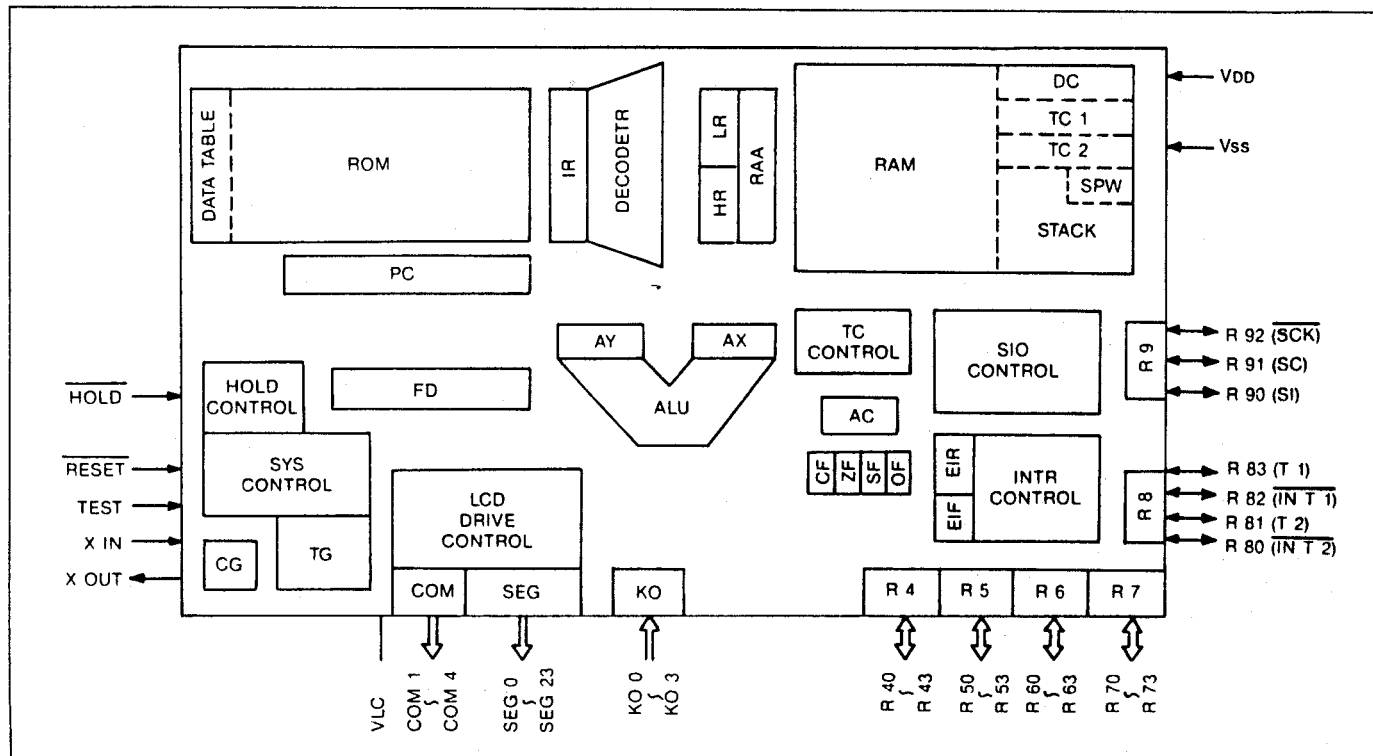


8. IC BLOCK DIAGRAM



■ TMP47C 420AF

Block Diagram

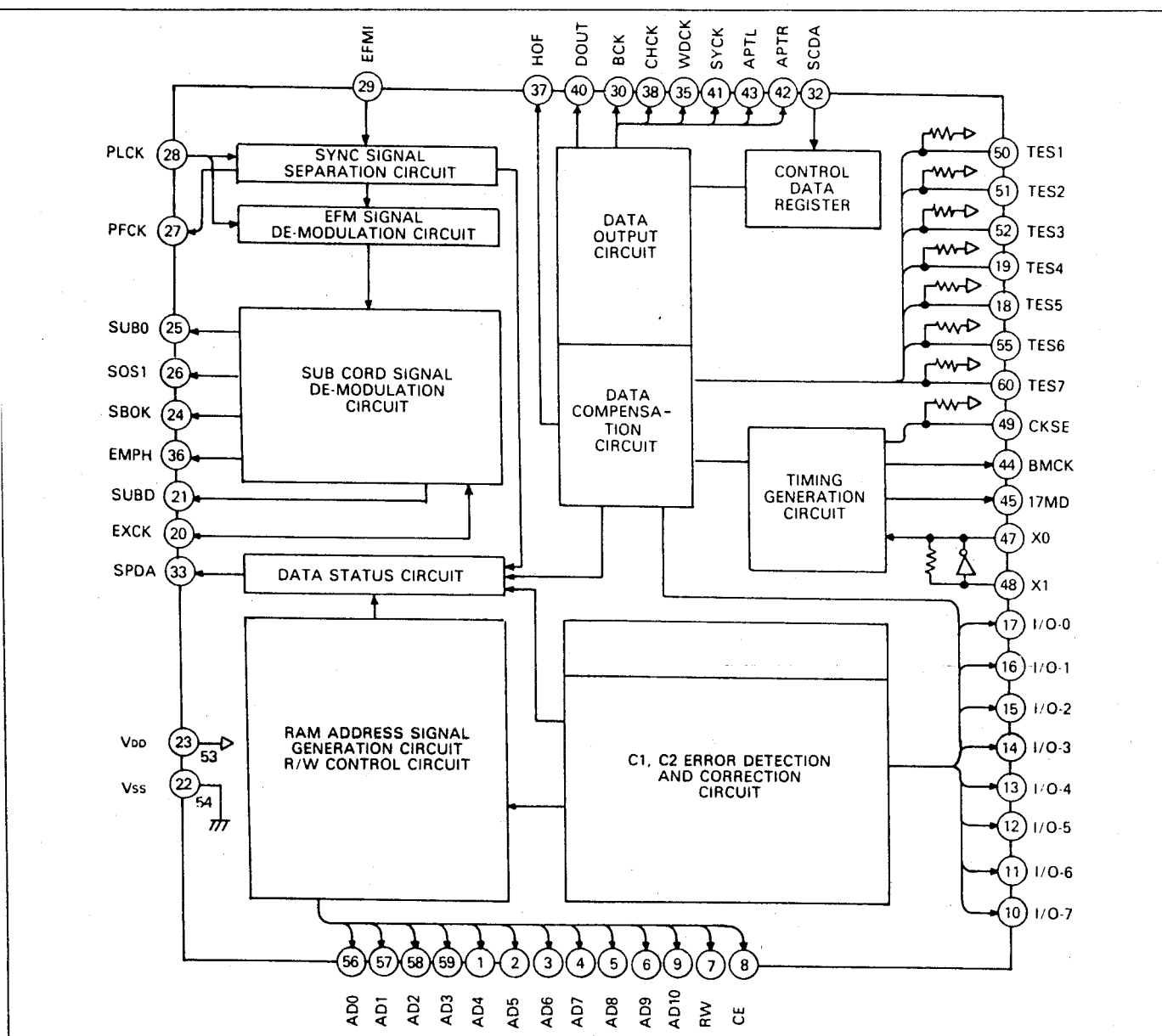


Name and Function

Block Name	Function
PC	Program Counter (12-bit)
ROM	Program Memory (Includes Fixed Data Area)
IR, Decoder	Instruction Register, Decoder
HR, LR	H-Register (RAM Page Designation) L-Register (Address Designation Inside RAM Page)
RAA	4-bis Respectively
RAM	RAM Address Buffer Register (8-bit)
STACK	Data Memory
SPW	Program Counter and Flag Stack Area (RAM Area)
DC, Data Table	Stack Pointer World (RAM Area)
AX, AY	Data Counter (12-bit, RAM Area), Data Table (ROM Area)
ALU	Temporary Register for ALU Input
AC	Arithmetic Logic Circuit
FLAG (CF, ZF, SF, GF)	Accumulator
K, R	Flag
INTR Control	I/O Ports
FD	Interrupt Control (EIF: Interruption Permission Master F/F, EIR: Interruption Permission Register)
TC1, TC2	Divider (4 Stages Prescaler + 18 Stages)
TC Control	12-bit Timer/Counter 2 Channels (RAM Area)
SIO Control	Control of Timer/Counter
HOLD Control	Control of Serial Port with 4-bit Buffer
SYS Control	Control of Hold Function
CG, TG	Generation of International Control Signals Oscillator Circuit, Timing Generator

■ TC9200AF

Block Diagram



Terminal Function

Pin No.	Symbol	I/O	Function	Note
56 59 1 6 9	AD0 AD3 AD4 AD9 AD10	0	External RAM (8-bit × 2K) address signal output terminal.	Connect to AD0~AD10 of external RAM.
7	RW	0	External RAM read/write signal output terminal.	Connect to RW of external RAM.
8	CE	0	External RAM chip enable signal output terminal.	Connect to CE of external RAM.

Pin No.	Symbol	I/O	Function	Note
10	I/O-7	I/O I/O	External RAM data bus line.	Connect I/O-7 ~ 0 of external RAM.
17	I/O-0			
18	TES5	I	Test terminal. Normally "H" or "Open"	
19	TES4			
20	EXCK	I	Sub code P~W & S0+S1, SBOK data read out clock input terminal.	
21	SUBD	O	Sub codes P~W output terminal. Sets data in internal register at falling edge of PECK. Outputs each data serially by inputting EXCK.	
22	Vss	—	Ground terminal.	
23	VDD	—	Power supply terminal.	
24	SBOK	O	CRC check output terminal for Q data in sub-code signal. "H" for no error, "L" for error. The output is the result for data preceding one block from 80-bit Q data being developed.	Connect to SBOK. (Pin 52)
25	SUBQ	O	Sub code signal Q data output terminal. Q data is output externally synchronizing with falling edge of PFCK.	Connect to TC9201AF SUBO. (Pin 51)
26	S0 S1	O	Sub code sinks S0 and S1 output terminal. When sub code sink S0 or S1 is detected, "H" level is output for the frame period (synchronized with falling edge of PFCK).	Connect to TC9201AF PFCK. (Pin 50)
27	PFCK	O	Playback system frame period signal output terminal. Duty cycle: Approx. 50%, f = 7.35 kHz.	Connect to PECK. (Pin 49)
28	PLCK	I	Data read out clock input terminal. The clock is generated in PLL circuit with RF signal reproduced from a disc. 4.32 MHz when PLL phase is locked. Duty cycle: Approx. 50%.	Connect to TC9201AF PLCK. (Pin 48)
29	EFMI	I	EFM signal input terminal. Inputs synchronizing with PLCK rising edge.	Connect to TC9201AF DOUT. (Pin 47)
30 31	NC	—	Non-connected terminal.	
32	SCDA	I	Control data serial input terminal. Inputs data serially every frame from TC9201AF.	Connect to TC9201AF SCDA. (Pin 39)
33	SPDA	O	Processor status signal output terminal. Serially outputs information every frame such as synchronizing condition, correction processing decision result memory buffer quantity, etc. every one frame.	Connect to TC9201AT SPDA. (Pin 38)
34	COFS	O	Correction system frame synchronizing signal output terminal. f = 7.35 kHz (Xtal division)	Connect to TC9201AT COFS.

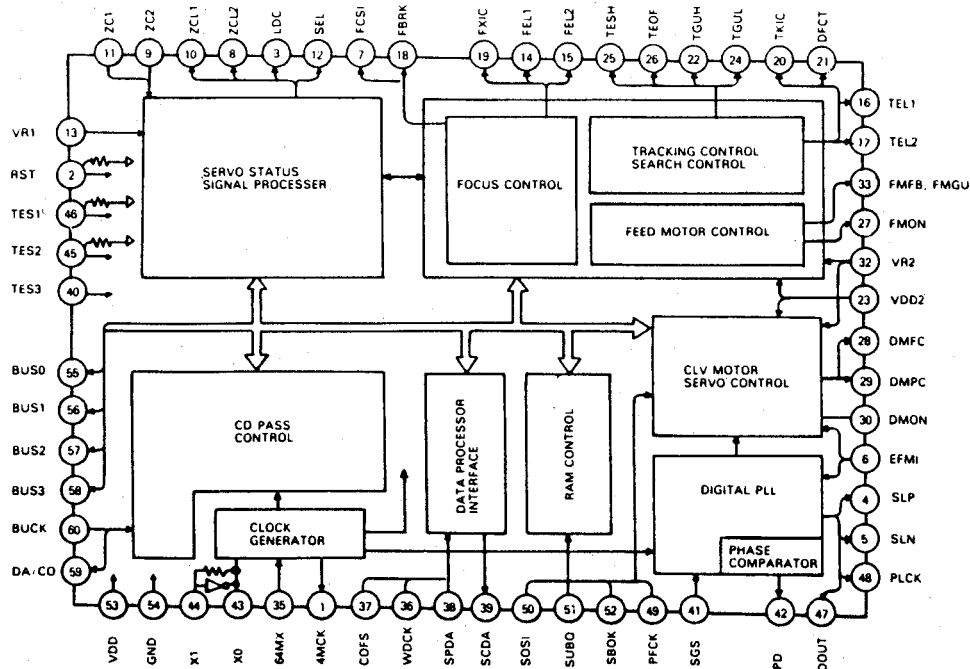
Pin No.	Symbol	I/O	Function	Note
35	WDCK	O	Word clock output terminal. Clock of BCK divided into 16. Duty cycle: 50%, $f = 88.2$ kHz.	Connect to WDCK. (Pin 36)
36	EMPH	O	Emphasis on/off instruction signal output terminal. Emphasis on/off decision output of "H" in Q data control bits turns the emphasis ON. Two successive OK in CRC decision results is seemed as effective.	
37	HOF	O	Output data compensation flag output terminal. Flag is added in 8-bits unit and output in synchronization with falling edge of SYCK in sequence of each LSB and MSB side flag at the same time of the data output. "H" in case of compensation data.	
38	CHCK	O	Channel clock output terminal. When WDCK divided into 1/2 is "L" L ch output data develops and "H" R ch output data. Duty cycle: 50%, $f = 44.1$ kHz.	
39	BCK	O	Bit clock output terminal. Duty cycle: 50%, $f = 1.4112$ MHz.	
40	DOUT	O	Data output terminal. Outputs serially from MSB side in synchronization with falling edge of BCK.	
41	SYCK	O	Symbol clock output terminal. Clock of BCK divided into 8. Duty cycle: 50%, $f = 176.4$ kHz.	
42	APTT	O	R ch data aperture signal output terminal.	
43	APTL	O	L ch data aperture signal output terminal.	
44	CK8M	O	8M clock output terminal. Xtal 16.9344 MHz two divided clock.	
45	17MO	O	17M clock output terminal. Xtal 16.9344 MHz buffer output.	
46	NC	—	Non-connected terminal.	
47	X-O	O	Xtal oscillator element connection terminal. Clock required for system is generated by connecting xtal oscillator element. Xtal 16.9344 MHz.	X-O
48	X-I	I		X-O
49	CKSE	I	Clock selection terminal. Select 16.9344 MHz with X-I input clock "H" or open, or selects 8.4672 MHz with the clock, "L"	
50	TES1	I	Test terminal. Normally used at "H" or "Open"	
51	TES2			
52	TES3			
53	VDD	—	Power supply terminal.	
54	VSS	—	Ground terminal.	
55	TES6	I	Test terminal. Normally used at "H" or "Open"	
60	TES7			

IC No.: TC9200AF Pin Voltage

NO	STOP (V)	PLAY (V)
1	1.1	1.2
2	1.1	1.0
3	1.1	1.2
4	2.8	2.9
5	3.0	3.1
6	3.0	3.0
7	5.1	5.2
8	4.3	4.3
9	2.9	3.0
10	0.7	2.0
11	0.7	2.0
12	0.7	2.0
13	3.2	2.0
14	3.2	2.0
15	3.2	2.0
16	0.7	2.0
17	3.2	2.0
18	1.4	1.5
19	1.4	1.5
20	0	0
21	0	0
22	0	0
23	5.5	5.5
24	0	5.5
25	0	1.4
26	0	0.2
27	2.6	2.5
28	1.5	1.5
29	5.5	2.8
30	0	0

NO	STOP (V)	PLAY (V)
31	0	0
32	4.3	4.8
33	3.5-3.8	0.2
34	1.8	1.8
35	2.7	2.8
36	5.4	5.5
37	5.4	0
38	2.7	2.8
39	2.7	2.8
40	0	2.8
41	2.7	2.8
42	1.4	1.4
43	1.4	1.4
44	2.7	2.7
45	2.4	2.4
46	0	0
47	2	2.0
48	0.2	2.7
49	1.4	1.5
50	1.4	1.5
51	1.4	1.5
52	1.4	1.5
53	5.5	5.5
54	0	0
55	1.5	1.5
56	2.4-2.9	2.5
57	1.8-3.4	1.2
58	1.3-2.5	1.2
59	3.8-4.3	4.3
60	1.4	1.5

■ TC9201AF Block Diagram



Terminal Function

Pin No.	Symbol	I/O	Function	Note
1	4MCK	O	4M clock output terminal. $f = 4.2336 \text{ MHz}$ (Xtal division)	
2	RST	I	Reset input terminal "H" or open normally. Internal system reset at "L".	
3	LDC	O	Control signal output terminal for laser diode drive circuit.	Open drain.
4	SLP	O	EFM signal forward rotation output terminal.	3 states output.
5	SLN	O	EFM signal reverse rotation output terminal.	3 states output.
6	SLN	O	EFM signal reverse rotation output terminal.	3 states output.
6	EFMI	I	EFM signal input terminal.	
7	FCSI	O	Polarity indication output terminal for focus actuator drive signal.	3 states output.
8	ZCL2	O	Built-in DA converter output terminal-2	Connect to TA8101N ZCL2. (Pin 16)
9	ZC2	I	External comparator output signal input terminal-2.	Connect to TA8101N ZC2. (Pin 17)
10	ZCL1	O	Built-in DA converter output terminal-1.	Connect to TA8101N ZCL1. (Pin 18)
11	ZC1	I	External comparator output signal input terminal	Connect to TA8101 ZC1. (Pin 19)
12	SEL	O	Pick up servo mode indication signal output terminal.	Connect to TA8101N SEL. (Pin 20)

Pin No.	Symbol	I/O	Function	Note
13	VR1	—	Built-in DA converter power supply terminal. + 2.: V	
14 15	FEL1 FEL2	O	Focus gain adjustment and analog switch output terminal.	Two state outputs VR2, Hi-Z.
16 17	TEL1 TEL2	O	Tracking gain adjustment analog switch output terminal.	Two state outputs VR2, Hi-Z.
18	FBRK	O	Focus actuator brake signal output terminal.	3 states output.
19	FKIC	O	Focus actuator drive signal output terminal.	3 states output.
20	TKIC	O	Tracking actuator kich signal output terminal.	3 states output.
21	DFCT	O	Defect detection terminal. normally Hi-Z. Detects defect in PU output signal signal in only normal play mode and turns to VR2 potential during the detection period.	
22	TGUH	I	Analog switch for tracking servo loop middle and low frequency comparator input terminal.	
23	VDD	—	Power supply terminal.	
24	TGUL	I	Tracking servo loop low frequency gain switching analog switch input terminal.	Connect to TA8101N TSO. (Pin 22)
25	TESH	I	Tracking error signal sample holding analog switch input terminal.	
26	TEOF	I	Tracking servo operation on/off analog switch input terminal.	
27	FMON	I	Feed servo operation on/off analog switch input terminal.	
28	DMFC	O	Disc motor CLV servo AFC output terminal.	Three state outputs, H, L, VR2.
29	DMPC	O	Disc motor CLV servo APC output terminal.	3 states output.
30	DMON	I	Disc motor drive circuit gain, switching analog switch input terminal.	
31	FMGU	I	Feed sereo loop gain switching analog switch input terminal.	
32	VR2	—	Pickup servo circuit and disc servo circuit reference power supply terminal. + 2.1V	
33	FMFB	O	Feed motor forward and backward feeding control signal output terminal.	3 states output.
34	VDD2	—	Pickup servo circuit and disc servo circuit power supply terminal. + 2.1V	
35	84MK	I	8M clock input terminal. f = 8.4672 MHz (Xtal division)	
36	WDCK	I	Control data transmission and reception clock input terminal.	
37	COFS	I	Correction system frame period signal input terminal. f = 7.35 kHz	
38	SPDA	I	Status signal serial input terminal.	Connect to TC9200AF SPDA. (Pin 33)

Pin No.	Symbol	I/O	Function	Note
39	SCDA	O	Control data serial output terminal.	Connect to TC9200AF SCDA. (Pin 32)
40	TES3	I	Test terminal. Normally "L"	
41	SGS	I	PLL circuit selection terminal. Analog PLL circuit at "H" Digital PLL circuit at "L"	
42	PD	O	PLL phase comparator signal output terminal.	3 states output:
43	X-O	O	Xtal oscillator connection terminal.	X-O
44	X-I	I	Generates clock required for system with xtal oscillator connected.	X-I
45	TES2	I	Test terminal (with pull-up resistor). Normally "H" or open.	
46	TES1			
47	DOUT	O	EFM signal output terminal.	Connect to TC9220AF EFMI. (Pin 29)
48	PLCK	O	Bit clock output terminal.	Connect to C9200AF PLCK. (Pin 28)
49	PFCK	I	Play back system frame period signal input terminal. SUBQ, SBOK, and SOS1 are entered in input synchronization with falling edge of the signal. Used as comparison frequency for CLV servo AFC and APC.	Connect to TC9200AF PLCK. (Pin 27)
50	SOS1	I	Sub code signal sync pattern S0 and S1 input terminal.	Connect to TC9200AF S0 and S1. (Pin 26)
51	SUBQ	I	Q data input signal for sub code signal. Inputs into serial Q data 80 bis are defined as on block and stored in internal RAM.	Connect to TC9200AF SUBQ. (Pin 25)
52	SBOK	I	CRC check descision input terminal for sub code signal. "H" for no error, and "L" for error.	Connect to TC9200AF SBOK. (Pin 24)
53	VDD	—	Power supply terminal. +5V	
54	Vss	—	Ground terminal.	
55	BUS0	I/O	Command and data transmission and reception sub line. Command and data are entered inside at falling edge of BUCK. Allows data (entered during "H" period of BUCK) to appear on bus lines.	
58	BUS3			
59	DA/CO	I/O	Command and data processing control I/O. "L" when microprocessor transmits 1st command word, say "L" (input). Once all commands and data received correctly, the terminal turns "L" (output) for "L" period of BUCK. Used as acknowledge signal (ACK) to microprocessor. Normally "H"	Connect to external micro-processor.
60	BUCK	I	Command and data transmission and reception clock input terminal. "H" except reception mode with microprocessor. At reception mode, "L" for more than 9 μ s and "H" for 4 μ s a 90 μ s. 4 μ s after BUCK falling, DA/CO and BUS0~3 are switched over.	

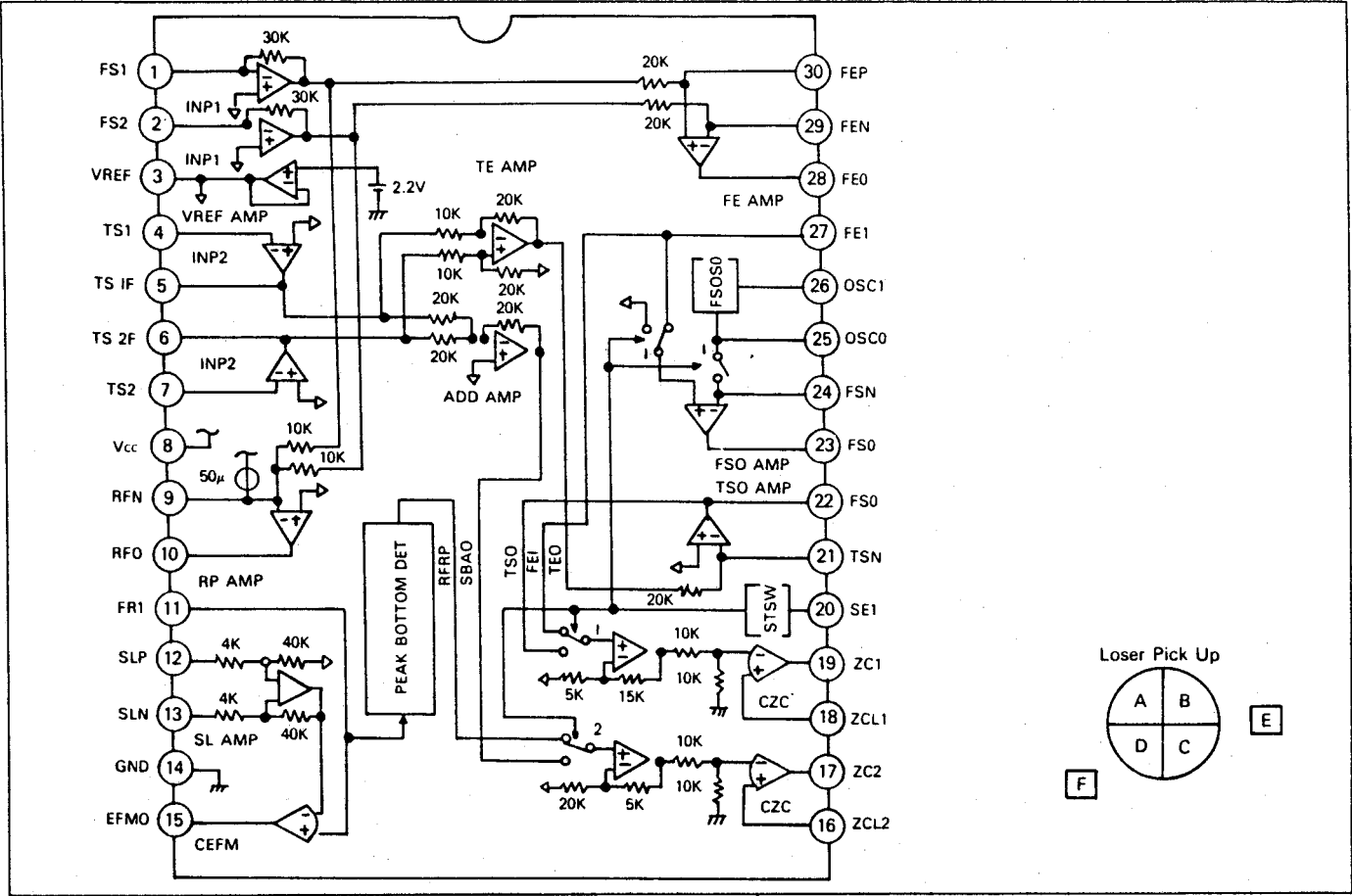
IC No.: TC9201AF Pin Voltage

NO	STOP (V)	PLAY (V)
1	2.0	2.0
2	0.8	0.8
3	0.1	2.75
4	5.4	2.5
5	0	2.0
6	4.5	2.2
7	0.7	0.7
8	0.45	0.7
9	2.0	2.0
10	1.0	1.0
11	2.0	2.0
12	5.2	1.0
13	2.15	2.2
14	2.15	2.2
15	2.15	2.2
16	1.1	1.1
17	0.7	2.2
18	0	0
19	1.4	1.45
20	0	0
21	0	0
22	2.15	2.2
23	*5.5	*5.5
24	*2.15	*2.2
25	2.15	2.2
26	2.15	2.2
27	2.15	
28	2.15	2.2
29	0.2	1.5
30	*0.9	*2.2

NO	STOP (V)	PLAY (V)
31	0.4	2.2
32	2.15	2.2
33	0	0
34	4.9	5.0
35	0	0
36	2.7	2.75
37	1.8	1.8
38	3.5-3.8	1.2
39	4.3	4.8
40	0	0
41	0	0
42	0	1.8
43	3.0	3.1
44	2.35	2.7
45	1.1	1.1
46	1.1	1.1
47	2.7	2.7
48	2.7	2.7
49	2.5	2.5
50	0	0.15
51	2.4	1.5
52	0	5.5
53	5.5	5.5
54	0	0
55	3.9	3.7
56	0.2	3.6
57	3	3.3
58	3.5	3.5
59	1.1	3.6
60	1.4	3.3

■ TA8101N

Block Diagram



Terminal Function

Pin No.	Symbol	I/O	Function	Note
1	FS 1	I	Main beam (I-V) converter 1,2 input terminal.	PIN diode Connect to B + D
2	FS 2			PIN diode Connect to A + C.
3	VREF	O	Reference voltage source output terminal (+ 2.2V).	
4	TS 1	I	Sub beam (I-V) converter 1 input terminal.	PIN diode Connect to F.
5	TS 1F	O	Sub beam (I-V) converter 1, 2 output terminal.	Connect to TS1 through feedback CR.
6	TS 2F			Connect to TS2 through feedback CR.
7	TS 2	I	Sub beam (I-V) converter 2 input terminal.	PIN diode Connect to E.
8	Vcc	—	Power supply terminal (+ 5V).	

Pin No.	Symbol	I/O	Function	Note
9	RFN	I	RF amp opposite phase input terminal.	Connect to RFN
10	RFO	O	RF amp output terminal.	Connect to RFN through feedback resistor.
11	RFI	I	RF signal input terminal.	Connect RFO through DC cut capacitor.
12	SLP	I	Slice level control and positive phase input terminal.	
13	SLN	I	Slice level control amp opposite phase input terminal.	
14	GND	—	Ground terminal.	
15	EFMO	O	EFM signal data slicer output terminal. Open collector output.	Vcc 1K Ω External resistor
16	ZCL	I	Status comparator 2 positive phase input terminal.	
17	ZC 2	I	Status comparator 2 output terminal. Open collector output.	Vcc 8.2K Ω External resistor
18	ZCL 1	I	Status comparator 1 positive phase input terminal.	
19	ZC 1	O	Status comparator 1 output terminal. Open collector output.	Vcc 8.2K Ω External resistor
20	SEL	I	Analog switch control signal input terminal.	
21	TSN	I	Tracking servo amp opposite phase input terminal.	
22	TSO	O	Tracking servo amp output terminal.	Connect to TSN through feedback CR.
23	FSO	O	Focus servo amp output terminal.	Connect to FSN through feedback CR.
24	FSN	I	Focus servo amp opposite phase input terminal.	
25	OSC O	O	Focus search signal generation capacitor connection terminal.	
26	OSC 1	I	Built-in current source control terminal.	
27	FEI	I	Focus error signal input terminal.	
28	FEO	O	Focus error amp output terminal.	Connect to FEN through feedback CR.
29	FEN	I	Focus error amp opposite phase input terminal.	
30	FEP	I	Focus error amp positive input terminal.	

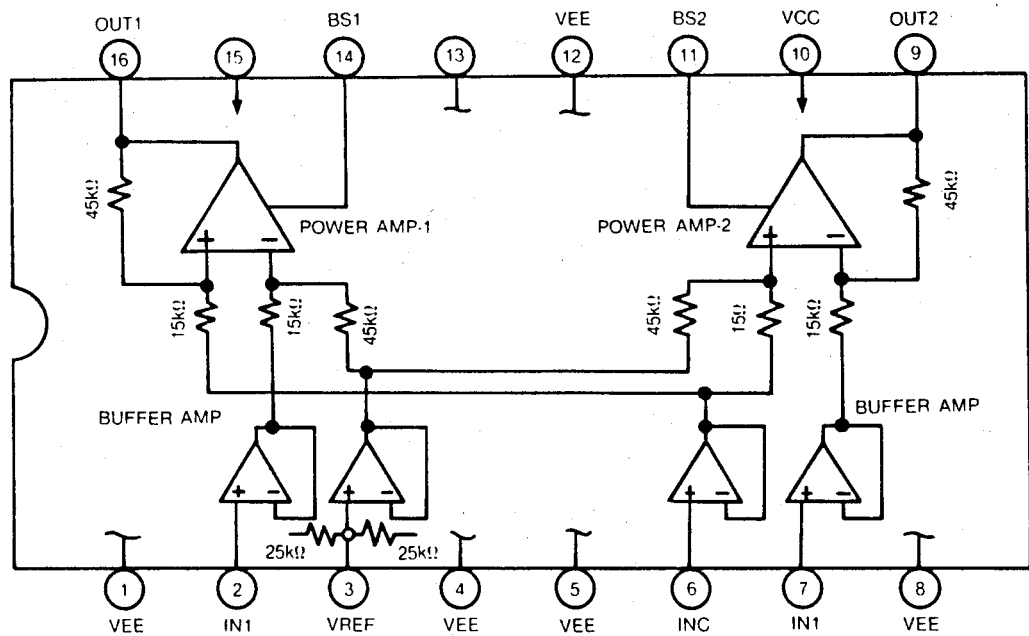
IC No.: TA8101N Pin Voltage

NO	STOP (V)	PLAY (V)
1	0.9	
2	0.9	0.9
3	2.15	2.2
4	0.3	0.3
5	2.15	2.0
6	2.15	2.0
7	0.3	
8	5.5	5.5
9	1.8	1.8
10	1.0	1.8
11	1.0	1.0
12	0.4	2.2
13	0.8	2.2
14	0	0
15	4.5	2.2

NO	STOP (V)	PLAY (V)
16	0.4	0.7
17	2.0	2.0
18	1.0	1.0
19	2.0	2.0
20	5.2	1.0
21	1.6	1.5
22	2.1	2.2
23	2.15	2.3
24	1.2	1.2
25	1.2	1.2
26	1.8	1.8
27	1.6	1.5
28	2.2	2.2
29	1.1	1.1
30	0.8	0.8

■ TA8102P

Block Diagram



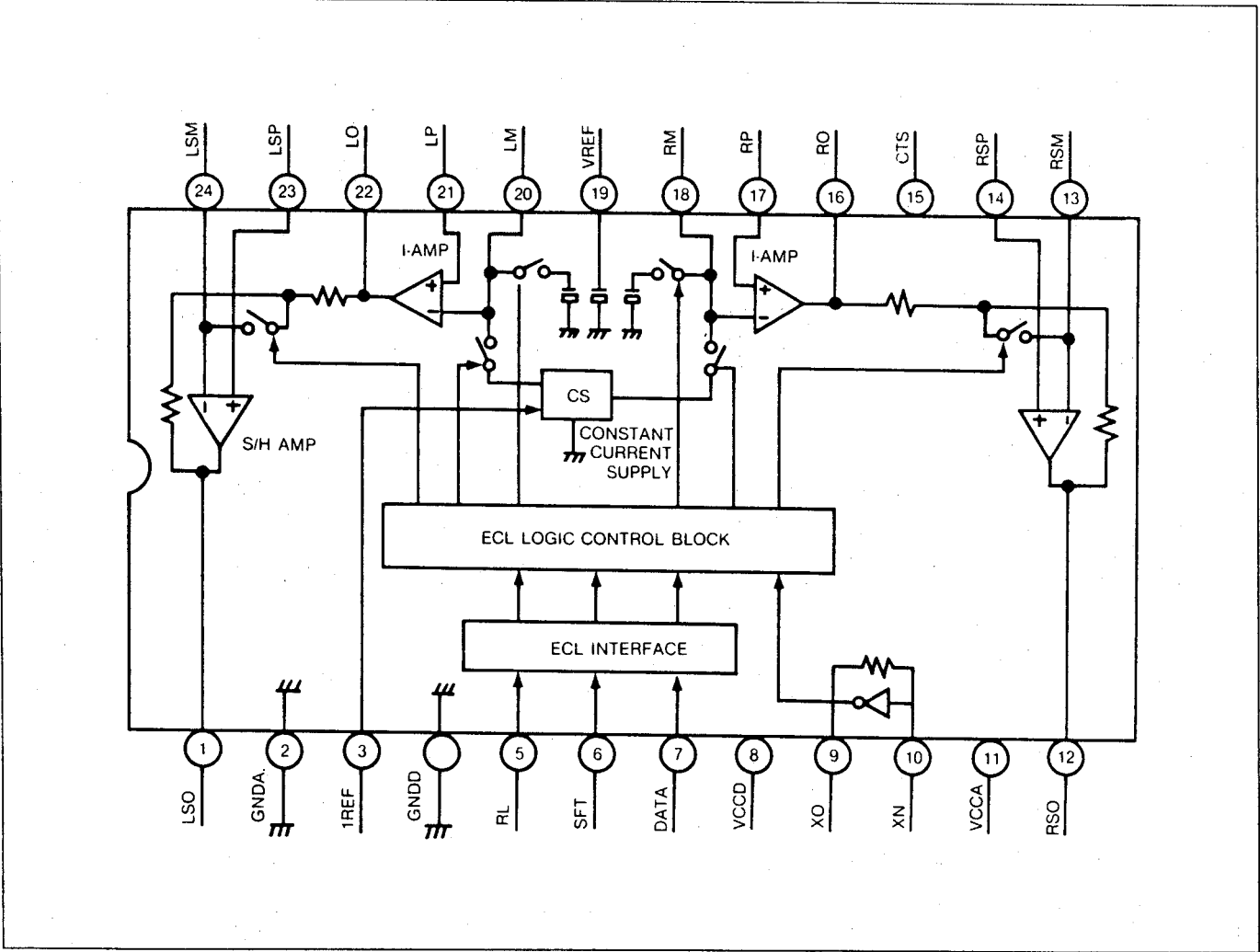
Pin Voltage

NO	STOP (V)	PLAY (V)
1	0	0
2	1.9	2.3
3	1.7	1.7
4	0	0
5	0	0
6	2.0	2.0
7	2.0	2.3
8	0	0

NO	STOP (V)	PLAY (V)
9	4.1	3.75
10	8.2	8.0
11	8.2	8.0
12	0	0
13	0	0
14	8.2	8.0
15	8.2	8.0
16	4.2	4.3

■ TD6710AN/AF

Block Diagram



Pin Voltage

NO	STOP (V)	PLAY (V)
1	3.2	3.25
2	0	0
3	1.5	1.5
4	0	0
5	2.7	2.7
6	2.7	2.7
7	0	2.7
8	5.5	5.5
9	3.2	3.2
10	2.4	2.4
11	5.5	5.5
12	3.2	3.2

NO	STOP (V)	PLAY (V)
13	2.2	2.2
14	2.0	2.0
15	1.2	1.2
16	2.1	2.1
17	2.25	2.3
18	2.1	2.1
19	2.25	2.3
20	2.15	2.1
21	2.25	2.25
22	2.0	2.1
23	2.0	2.1
24	2.15	2.2

Pin No.	Symbol	Function Description	Remarks
16	RO	Rch integrator output terminal.	
17	RP	Positive input terminal for Rch integrator ope-amp.	
18	RM	Negative input terminal for Rch integrator ope-amp. Integrating capacitor is connected to RO and RM.	
19	VREF	Integrator reference power supply voltage terminal. Power supply is constructed inside LSI and is connected to positive inputs LP, RP for L, Rch integrator ope-amp.	
20	LM	Negative input terminal for Lch integrator ope-amp. Integrating capacitor is connected to LO and LM.	
21	LP	Positive input terminal for Lch integrator ope-amp.	
22	LO	Lch integrator output terminal.	
23	LSP	Positive input terminal for Lch sample · hold ope-amp.	
24	LSM	Negative input terminal for Lch sample · hold ope-amp. Hold capacitor is connected to LSO and LSN:	

IC No.: 2904D Pin Voltage

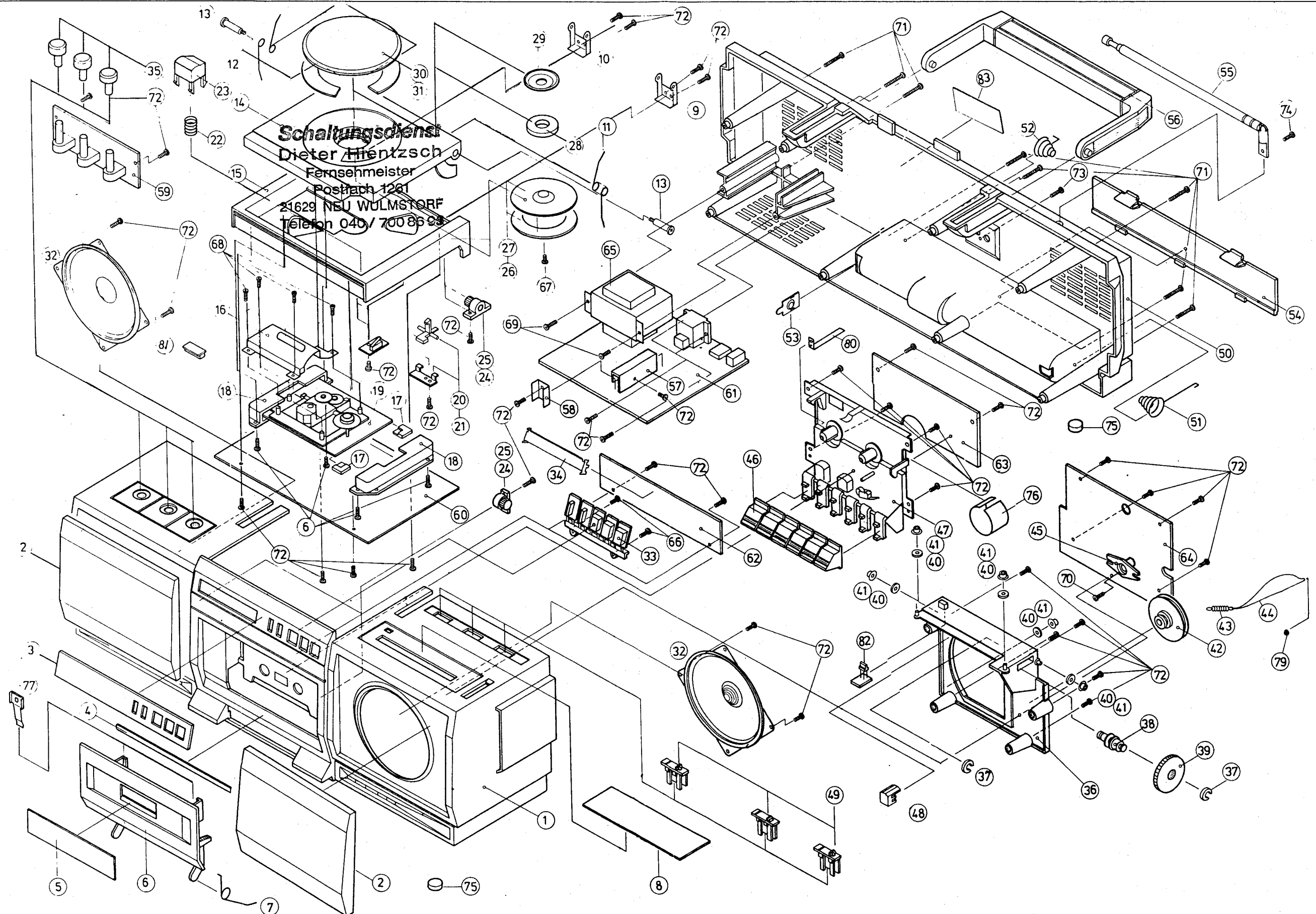
NO	STOP (V)	PLAY (V)
1	4.25	3.0
2	0.3	0.2
3	3.7	0.3
4	0	0
5	0.3	0.2
6	0.2	2.8
7	4.25	0
8	5.5	5.5

IC No.: 3403AD Pin Voltage

NO	STOP (V)	PLAY (V)
1	2.15	2.2
2	1.15	1.2
3	0.4	0.4
4	5.5	5.5
5	2.15	2.2
6	2.15	2.2
7	2.15	2.15
8	2.15	2.2
9	*1.2	*1.2
10	*1.1	*0.9
11	0	0
12	2.15	2.2
13	*0.8	*0.8
14	*2.0	*2.0

9. EXPLODED VIEW

■ CABINET EXPLODED VIEW AND PARTS LIST



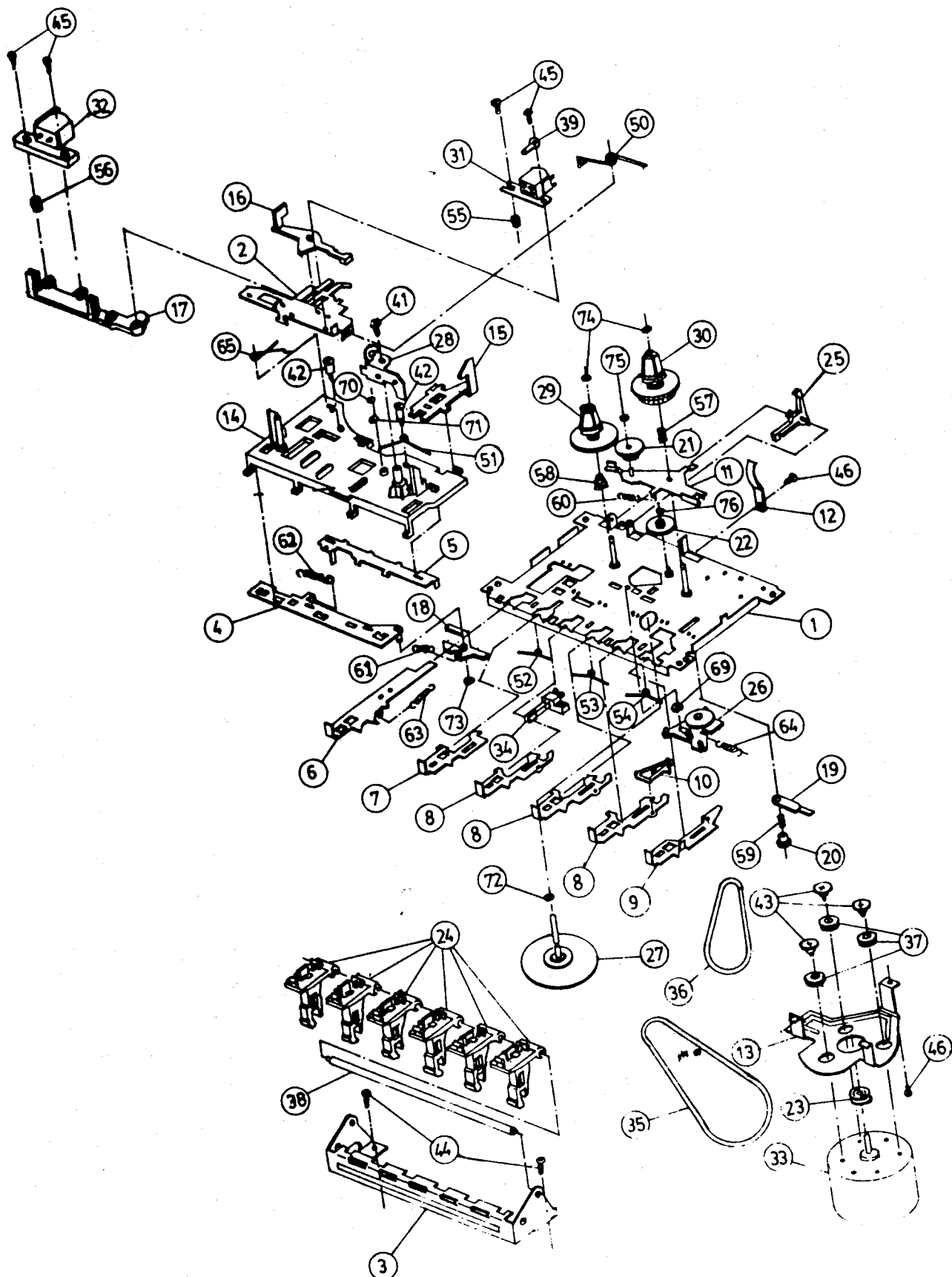
■ ACD-250 EXPLODED VIEW PART LIST

NO.	PART NAME	PART CODE	DESCRIPTION	Q'TY	REMARK
1	CABINET FRONT	9710118800	MIPS	1	
2	GRILL SPEAKER	9711204700	SCP-1	2	
3	DECO FRONT	9711002100	PC SHEET	1	
4	PLATE DECK	9710919000	PC SHEET	1	
5	WINDOW CASS DOOR	9711605900	PC SHEET	1	
6	DOOR CASSETTE	9711605900	HIPS	1	
7	SPRING CASSETTE	9713011101	STS	1	
8	PLATE DIAL	9710918900	PC SHEET	1	
9	BRKT DOOR A	9712410400	SBHG	1	
10	BRKT DOOR B	9712410500	SBHG	1	
11	SPRING CD DOOR A	9713014800	STS	1	
12	SPRING CD DOOR B	9713015900	STS	1	
13	SHAFT DOOR	9713603900	SM15C	2	
14	DOOR CD	9711805500	HIPS	1	
15	CABINET TOP	9710119000	MIPS	1	
16	COVER PICK-UP	9710409000	SECC	1	
17	RUBBER CD CUSHION	9714211100	SLICON RUBBER	4	
18	HOLDER CD DECK	9712308600	ABS	2	
19	CD MECHANISM	9CD6000300	KSM-150B-DM	1	
20	HOOK CD DOOR	9712606600	ACETAL	1	
21	BRKT HOOK	9712410600	SECC	1	
22	SPRING CD OPEN	9713014900	STS	1	
23	KNOB CD OPEN	9711326800	ABS	1	
24	DAMPER GEAR	9712604300	ACETAL	2	
25	DAMPER BASE	9712604400	ABS	2	
26	CHUCK PLATE A	9CD2A00100	STS	1	
27	FELT CHUCK	9CD4100100	HIMELON	1	
28	MAGNET	9CD5400101	FERRITE	1	
29	CHUCK PLATE B	9CD2A00201	SBHG	1	
30	WINDOW DOOR CD	9711605800	ACRYL	1	
31	WINDOW TAPE CD	97116D6000	NITTO #500	2	
32	SPEAKER	9718505802	4 IN 8 OHM	2	
33	KNOB CD FUNCTION	9711326900	ABS	1	
34	BRKT LCD	9712410300	SECC	1	
35	KNOB VOLUME	9711327000	ABS	3	
36	CHASSIS	9710603600	ABS	1	
37	SHAFT ST	9713602500	ACETAL	2	
38	SHAFT TUNING	9713604000	ACETAL	1	
39	KNOB TUNING	9711327100	ABS	1	
40	PULLEY	9713703300	PE	5	

NO.	PART NAME	PART CODE	DESCRIPTION	Q'TY	REMARK
41	BUSH	9714001400	ACETAL	5	
42	DRUM	9712903900	ABS	1	
43	SPG DRUM	9713005000	PW-1	1	
44	CORD DIAL	2242290001	DO.5 WH	1ME	
45	GUIDE DRUM	9712501000	ABS	1	
46	KNOB DECK	9711326700	ABS	6	
47	DECK MECHANISM	9CD6000700	ADR 1146 FB	1	
48	POINTER	9711704400	ABS	1	
49	KNOB SILDER	9711327200	ABS	3	
50	CABINET BACK	9710118900	MIPS	1	
51	SPRING BATT A	9713006800	STS	1	
52	SPRING BATT B	9713016000	PW-1	1	
53	TERMINAL BATT	9716407100	BSS	1	
54	COVER BATTERY	9710408900	MIPS	1	
55	ANT ROD	9716804900	DW-6TYPE	1	
56	HANDLE	9711903700	ABS	1	
57	HEAT SINK	9714401500	ALP	1	
58	HEAT SINK TR	9714402100	BSB	1	
59	PCB CONTROL	9CD6502002		1	
60	PCB CD	9CD6502100		1	
61	PCB POWER	9CD6502000		1	
62	PCB DISPLAY	9CD6502101		1	
63	PCB DECK	9CD6502003		1	
64	PCB TUNER	9CD6502001		1	
65	TRANS POWER	5TRK054533		1	
66	SCREW TAPPTITE	7173260611	TT2 BIN 2.6×6 MFZN	2	KNOB CD FUN.
67	SCREW MACHINE	7001200414	PAN 2×4 MFNI	1	CHUCK PLATE
68	SCREW TAPPTITE	7173200411	TT2 BIN 2×4 MFZN	4	COVER PICK-UP
69	SCREW TAPPTITE	7178301211	TT2 WAS 3×12 MFZN	2	TRANS
70	SCREW MACHINE	7001260611	PAN 2.6×6 MFZN	1	GUIDE DRUM
71	SCREW TAPPTITE	7173302011	TT2 BIN 3×20 MFZN	8	CABI F/B
72	SCREW TAPPTITE	7173301011	TT2 BIN 3×10 MFZN	42	
73	SCREW TAPPTITE	7173301012	TT2 BIN 2×10 MFZN BK	1	RCA JACK
74	SCREW MACHINE	7003301212	BIN 3×12 MFZN BK	1	ANT ROD
75	CUSHION FOOT	9710801100	HARD SPONGE	4	
76	SHIELD MOTOR	9713303900	G-11	1	
78	SPRING C-HOLDER	9713008900	STS	2	
79	EYE LET	4714400400	BS	1	
80	SPRING REC	9713015500	STS	1	
81	CUSHION PICK UP	9CD4201700	RUBBER	1	
82	LED			1	
83	PLATE SPEC "A"	9719318700	PE PILM	1	

10. MECHANISM EXPLODED VIEW

■ CASSETTE SECTION AND PARTS LIST

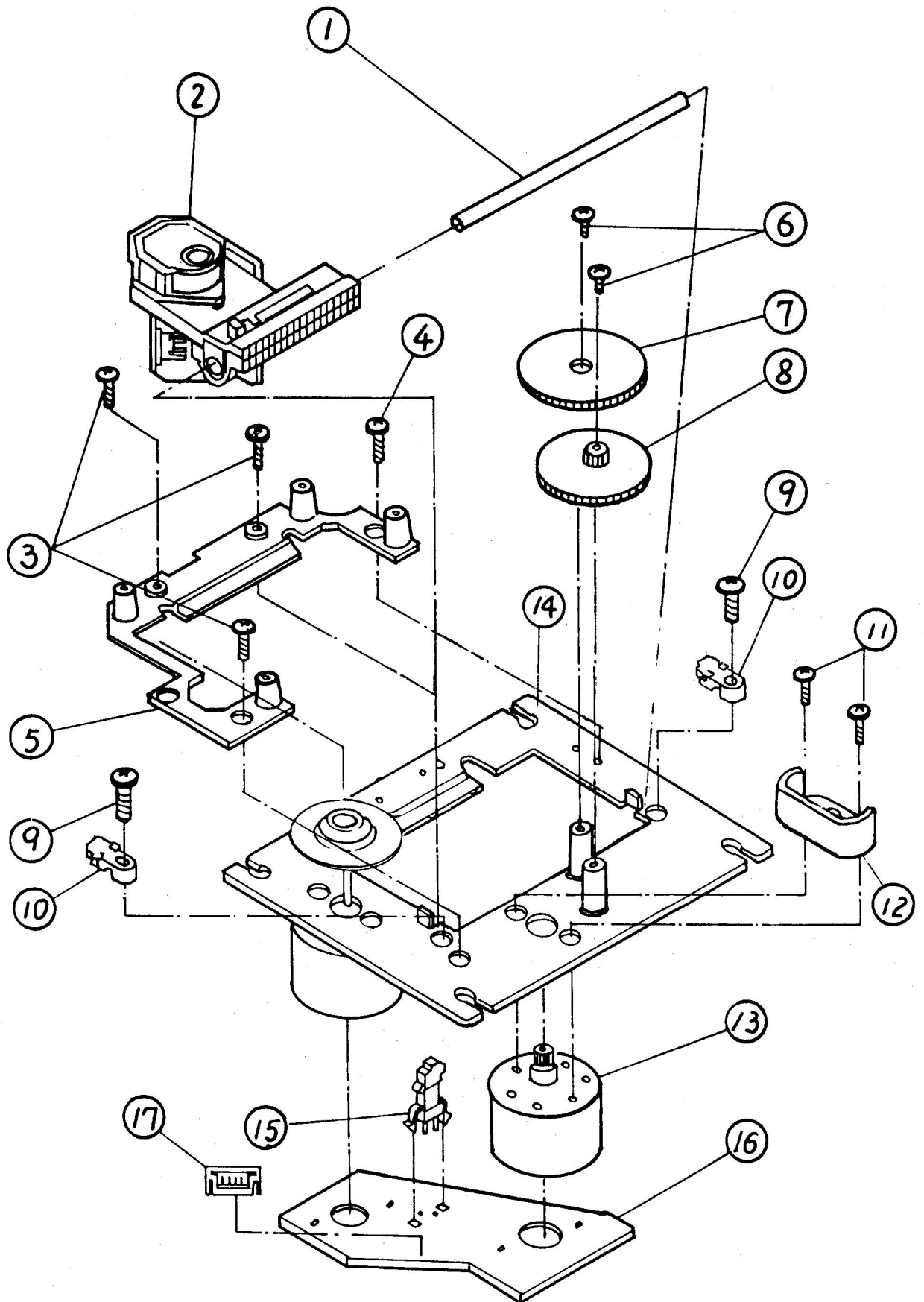


■ PART LIST

NO.	DESCRIPTION	PARTS NO.	Q'TY
1	MAIN CHASSIS ASS'Y	ADR02-001	1
2	SUB CHASSIS 'AC'	11112-00350BA	1
3	BUTTON CHASSIS	11112-00080BA	1
4	LOCK PLATE ASS'Y	ADROZ-002	1
5	REC SAFETY BAR	11104-00010BA	1
6	REC LEVER	11134-01080BA	1
7	PLAY LEVER	11134-01070BA	1
8	F.R.S.E LEVER	11134-01050BA	3
9	PAUSE LEVER	11134-01060BA	1
10	S.E CHANGE LEVER	11134-00270BA	1
11	IDLER ARM ASS'Y	ADR02-003	1
12	PACK SPRING	51299-02506XC	1
13	MOTOR BRACKET-B	11106-00380BA	1
14	BASE PLATE ASS'Y	ADR04-001	1
15	EJECT LEVER-F	11134-00340AA	1
16	AUTO STOP LEVER	11134-00310AA	1
17	HEAD BASE-'AC'	11105-00130AA	1
18	AUTO ARM	11102-00090AA	1
19	PAUSE LOCK CAM	11116-00010AA	1
20	CAP	11117-00020AA	1
21	T. ROUER GEAR	11128-00050AA	1
22	F.F GEAR	11128-00080AA	1
23	MOTOR PULLEY-G	11145-00110AA	1
24	BUTTON KNOB	11133-00010AA	6
25	REC SAFETY LEVER	11134-01000AA	1
26	RE LEVER ASS'Y	ADR22-001	1
27			
28	PINCH ROLLER ASS'Y	ADR26-001	1
29	SUPPLY REEL ASS'Y	ADR28-002	1
30	TAKE UP REEL ASS'Y	ADR28-001	1
31	R/P HEAD	HY4Z4700K	1
32	ERASE HEAD	HJ213260K	1
33	MOTOR	EG530KD2B	1
34	LEAF SWITCH (MIC)	MSW-17770MVCO	1
35	MAIN BELT, $\phi 45.5 \times 1.0T$	51424-04510BA	1
36	SUB BELT, $\phi 35.2 \times 1.0T$	51424-03510BA	1
37	RUBBER CUSHION	11115-00020FA	3
38	BUTTON SHAFT	11150-00150FA	1

NO.	DESCRIPTION	PARTS NO.	Q'TY
39	CORD CLAMP B	11113-0004BFA	1
40			
41	C·H TAPPING SCREW $M2 \times 4$	50212-20042BA	1
42	SPECIAL SCREW $M2 \times 8.5$	50412-20081EA	2
43	MOTOR SCREW $M2.6 \times 4$	50062-26041EA	3
44	C·H TAPTITE SCREW $M2 \times 8$	50232-20089BA	2
45	B·H SCREW $M2 \times 8$	50062-20081EA	4
46	B·H TAPTITE SCREW $M2 \times 3$	50262-20039EA	2
47			
48			
49			
50	PINCH ARM SPRING	51272-07033BA	1
51	EJECT TORSION SPRING	51271-06046RA	1
52	RP TORSION SPRING	51264-05033BA	1
53	FR TORSION SPRING	51271-06033BA	1
54	PAUSE TORSION SPRING	51271-05023BA	1
55	AZIMUTH SPRING	51201-06036RA	1
56	E-HEAD SPRING	51201-05036XA	1
57	BACK TENSION SPRING	51203-02066RA	1
58	BACK TENSION SPRING	51201-02026XB	1
59	PAUSE LEVER SPRING	51201-02036RA	1
60	IDLER ARM SPRING	51222-02026RB	1
61	AUTO ARM SPRING	51211-01026RB	1
62	LOCK PLATE SPRING	51222-02026RA	1
63	REC LEVER SPRING	51211-02026XA	1
64	R·F LEVER SPRING	51216-02026RA	1
65	REC SAFETY BAR SPRING	51271-02026RA	1
66			
67			
68			
69	E-RING, $\phi 2.5$	51855-02525RA	1
70	MYLAR WASHER, $1.6 \times 5 \times 0.35$	51010-01603AA	1
71	POLY WASHER, $2.1 \times 4 \times 0.25$	51000-02102DA	1
72	POLY WASHER, $2.1 \times 4 \times 0.5$	51000-02105CA	1
73	POLY WASHER, $2.1 \times 4 \times 0.3$	51010-02103AA	1
74	POLY WASHER, $1.6 \times 3.5 \times 0.3$	51010-01603BA	2
75	POLY WASHER, $1.3 \times 3.5 \times 0.3$	51010-01303AA	1
76	POLY WASHER, $1.3 \times 3 \times 0.25$	51010-01302AA	1

■ CD SECTION AND PARTS LIST



KSM-150B DM PARTS LIST

NO.	PART CODE	PART NAME	Q'TY	REMARK
1	4-910-431-02	SLIDE SHAFT	1	
2		PICK UP ASS'Y	1	
3	7-685-783-01	SCREW (TT2 PAN 2×6)	3	
4	7-685-781-01	SCREW (TT2 PAN 2×4)	1	
5	2-641-444-03	CHASSIS HOLDER	1	
6	3-303-809-31	SPECIAL SCREW (M1.7×3)	2	
7	2-641-404-02	GEAR A	1	
8	2-641-403-06	GEAR B	1	
9	2-641-447-01	SPECIAL SCREW TAPPING 2.6×8 (1)	2	
10	2-641-448-02	SHAFT CLAMPER	2	
11	7-621-255-25	SCREW MACHINE (PAN 2×4)	2	
12	2-641-434-21	GEAR COVER	1	
13	X-2640-770-1	SLED MOTOR ASS'Y	1	
14		MAIN CHASSIS	1	
15	1-570-822-21	LEAF SWITCH	1	
16	1-623-947-11	MOTOR P.C.B	1	
17	1-564-722-11	CONNECTOR (6P)	1	

11. PART LIST

■ PCB CD AS

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
1000	PAMPMBDB00	PCB MAIN AS	ACD-250
FX901	9762350100	CLIP FUSE	SHF-003 D5, 2×20MM F TYPE
FX902	9762350100	CLIP FUSE	SHF-003 D5, 2×20MM F TYPE
F901	5FKGB5012R	FUSE	KS MF51 0.5A 250V NR
F902	5FKGB2512R	FUSE	KS MF51 0.25A 250V NR
IC501	1BA5410	IC	BA 5410
J902	9716381400	SOCKET AC	2PIN HSC1466-01-0111
PT901	5TPKO54533	TRANS POWER	EI=54×24 110/220V 60Hz KS
Q901	TKTD2058Y-	TR	KTD2058Y
C502	CEYE1E332A	C ELECTRO	25V 3300MF
C504	CMYM1H104J	C MYLAR	50V 0.1MF J
C506	CMYM1H104J	C MYLAR	50V 0.1MF J
C508	CEYE1C471A	C ELECTRO	16V 470MF RS
C509	CEYE1C471A	C ELECTRO	16V 470MF RS
C511	CEYE1H339A	C ELECTRO	50V 3.3MF RS
DZ904	DKTZ9R1A	DIODE ZENER	MTS-9.1
DZ906	DKTZ5RGA	DIODE ZENER	MTZ-5.6
D908	D1N4002	DIODE	1N4002 1A 100V
D909	D1N4002	DIODE	1N4002 1A 100V
D910	D1N4002	DIODE	1N4002 1A 100V
D911	D1N4002	DIODE	1N4002 1A 100V
J401	9716313000	JACK	SE-052 W/O TAP
J501	9766317710	JACK HEADPHONE	SHQ8935-01-440
J801	9716311100	JACK	SE041-1 (PRCD66US)
LW501	W144021517	WIRE RIBBON 1007	AWG26 7/0.16 2P 10-150-10
Q902	TKTG2236AY	TR	KTG2236A-Y
SW901	5S30102181	SW SLIDE	00120353 VTG SEL
B001	9CD6502000	PCB MAIN	1HB 197×247×1.6T
C503	CEXE1C470A	C ELECTRO	16V 47MF RS
C505	CEXE1A470A	C ELECTRO	10V 47MF RS
C507	CEXE1C470A	C ELECTRO	16V 47MF RS
C513	CEXE1H109A	C ELECTRO	50V 1MF RS
C903	CEXE1C220A	C ELECTRO	16V 22MF RS
C904	CEXE1A101A	C ELECTRO	10V 100MF RS
C905	CCXF1H223Z	C CERA	50V F 0.022 MF Z
C906	CCXF1H223	C CERA	50V F 0.022 MF Z
C907	CCXF1H223Z	C CERA	50V F 0.022 MF Z

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
C908	CCXF1H223Z	C CERA	50V F 0.022 MF Z
D902	DKSS133	DIODE	1SS133
	D1N4148	DIODE	1N4148
D905	DKSS133	DIODE	1SS133
	D1N4148	DIODE	1N4148
D907	DKSS133	DIODE	1SS133
	D1N4148	DIODE	1N4148
Q501	TZTA1015Y-	TR	KTA1015-Y
Q502	TZTC1815Y-	TR	KTC1815-Y
Q903	TZTA1015Y-	TR	KTA1015-Y
Q904	TZTC1815Y-	TR	KTC1815-Y
R501	RD-4Z339JK	R CARBON FILM	1/4 3.3 OHM J
R502	RD-4Z339JK	R CARBON FILM	1/4 3.3 OHM J
R503	RD-4Z339JK	R CARBON FILM	1/4 3.3 OHM J
R504	RD-4Z271JK	R CARBON FILM	1/4 270 OHM J
R505	RD-AZ473JK	R CARBON FILM	1/6 47K OHM J
R506	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R507	RD-AZ333JK	R CARBON FILM	1/6 33K OHM J
R508	RD-AZ473JK	R CARBON FILM	1/6 47K OHM J
R509	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R510	RD-AZ153JK	R CARBON FILM	1/6 15K OHM J
R904	RD-4Z103JK	R CARBON FILM	1/4 10K OHM J
R905	RD-4Z473JK	R CARBON FILM	1/4 47K OHM J
R906	RD-4Z221JK	R CARBON FILM	1/4 220 OHM J
R907	RD-4Z569JK	R CARBON FILM	1/4 5.6K OHM J
R908	RD-4Z181JK	R CARBON FILM	1/4 180K OHM J

■ PCB CD AS

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
CN803	97188681U0	CONN AS	AWG30 8P 200MM
CN804	97188702U0	CONN AS	AWG30 8P 200MM RD
CN805	9718868000	CONN AS	AWG30 6P 200MM
C820B	CCKB1H471K	C CERA	HIKB 50V 470PF K
IC802	13FS9201	IC CUSTOM	PF TC9201AF CMOS
IC803	13GS9200	IC CUSTOM	PF TC9200AF CMOS
IC810	12GRC420PF	IC CPU	PF TMP47C420AF CMOS
R702	RD-4Y822J	R CARBON FILM	MAS 1/4W 8.2K OHM J
0300	9CD6000300	DECK MECHANISM	KSM-150B-DM
CN806	9718868600	CONN AS	AWG24 3P 350MM

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
CN807	9738853600	CONN AS	4P 200MM
C701	CEYE1C470A	C ELECTRO	16V 47MF RS
C702	CCYB1H472K	C CERA	HIKB 50V 4700PF K
C811	CCYF1H1032	C CERA	HIKF 50V 0.01MF Z
C812	CMYM1H104K	C MYLAR	50V 0.1MF K
C817	CMYM1H104K	C MYLAR	50V 0.1MF K
C823	CYSL1H221J	C CERA	SL 50V 220PF J
C824	CYSL1H221J	C CERA	SL 50V 220PF J
C827	CYSL1H220J	C CERA	SL 50V 22PF J
C833	CYSL1H409C	C CERA	SL 50V 4PF C
C834	CCYB1H103K	C CERA	HIKB 50V 0.01MF K
C836	CCYB1H151K	C CERA	HIKB 50V 150PF K
C838	CCYB1H103K	C CERA	HIKB 50V 0.01MF K
C843	CCYB1H222K	C CERA	HIKB 50V 200PF K
C852	CYSL1H200J	C CERA	SL 50V 22PF J
C861	CSYS1H331J	C STYROL	50V 330PF J
C863	CSYS1H122J	C STYROL	50V 1200PF J
C864	CEYE1A101A	C ELECTRO	10V 100MF RS
C865	CSYS1H122J	C STYROL	50V 1200PF J
C867	CEYE1C100A	C ELECTRO	16V 10MF RS
C868	CSYS1H331J	C STYROL	50V 330PF J
C869	MYM1H273J	C MYLAR	50V 0.027MF J
C871	CMYM1H273J	C MYLAR	50V 0.027MF J
C872	CMYM1H222J	C MYLAR	50V 2200PF J
C874	CCYB1H221K	C CERA	HIKB 50V 220PF K
C876	MYM1H122J	C MYLAR	50V 1200PF J
C877	CCYB1H221K	C CERA	HIKB 50V 220PF K
C885	CMYM1H102J	C MYLAR	50V 0.001MF J
C886	CCYB1H471K	C CERA	HIKB 50V 470PF K
C887	CCYB1H471K	C CERA	HIKB 50V 470PF K
C888	CEYE1H108A	C ELECTRO	50V 0.1MF RS
DZ003	DKTZ2RA4A	DIODE ZENER	MTX-2.4
IC001	1NJM2904D	IC OP AMP	MJM2904D
	1LM2904N	IC	LM2904N
IC801	1TA8101N	IC	TA8101N
IC804	1CPHY6116	IC	HY 6116-15
	1GM76C28	IC	GM76C28-10
IC805	13GZ6710	IC DAC	PD TD6710N
IC806	1MC3403N	IC	MC3403N

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
	1NJM3403AD	IC OP AMP	NJM3403AD
IC807	1MC3403N	IC	MC3403N
	1NJM3403AD	IC OP AMP	NJM3403AD
IC808	1KA9257	IC	KA9257
	1BA6290	IC	BA6290
IC809	1KA9257	IC	KA9257
	1BA6290	IC	BA6290
J801	9716311100	JACK PHONE	SE-041-1
LW801	W144BK1517	WIRE LEAD	AWG26 7/0.16 BK 10-150-10
LW802	W144RD1817	WIRE LEAD 1007	AWG26 7/0.16 RD 10-180-10
LW803	W144RD1817	WIRE LEAD 1007	AWG26 7/0.16 RD 10-180-10
LW805	W144YL1517	WIRE LEAD 1007	AWG26 7/0.16 YL 10-150-10
LW806	W144BK1517	WIRE LEAD	AWG26 7/0.16 BK 10-150-10
LW807	W144YL1517	WIRE LEAD 1007	AWG26 7/0.16 YL 10-150-10
LW808	W144BK8007	WIRE LEAD 1007	AWG26 7/0.16 BK 10-80-10
L001	5LF100K642	COIL FILTER	10UH K FIXED LD04 LAL03NA100K
L801	5LR211J501	COIL INDUCTOR	5 × 10 × 2.5MM 210UH J
L802	5LC333K505	COIL CHOKE	33MH
L803	5LC333K505	COIL CHOKE	33MH
Q001	TKTA950Y	TR	KTA950-Y
Q802	TKTC1815Y	TR	KTC1815-Y
Q808	1PST520D	IC	PST-5200
RV802	RV6217104	R SEMI FIXED	VM6CK PH(S) 100KB
RV803	RV6217104	R SEMI FIXED	VM6CK PH(1S) 100KB
RV804	RV6217104	R SEMI FIXED	VM6CK PH(1S) 100KB
R804	RD-AZ684J	R CARBON FILM	1/6 680K OHM J
X801	5PHC169344	CRYSTAL	16.9344 MHz
B801	9CD6502100	PCB CD	XPC-1 163 × 247 × 1.6T
C001	CEXE1H108A	C ELECTRO	50V 0.1MF RS
C002	CEXE1A470A	C ELECTRO	10V 47MF RS
C003	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C004	CEXE1A101A	C ELECTRO	10V 100MF RS
C801	CEXE1A101A	C ELECTRO	10V 100MF RS
C815	CMXM1H473J	C MYLAR	50V 0.047MF J
C816	CEXE1H478A	C ELECTRO	50V 0.47MF RS
C818	CMXM1H473	C MYLAR	50V 0.047MF J
C821	CMXM1H333J	C MYLAR	50V 0.033MF J
C822	CEXE1H108A	C ELECTRO	50V 0.1MF RS
C825	CEXE1C220A	C ELECTRO	16V 22MF RS

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
C826	CEXE1H229A	C ELECTRO	50V 2.2MF RS
C828	CKSL1H101J	C CERA	SL 50V 100PF J TAP
C829	CKSL1H470J	C CERA	SL 50V 47PF J
C830	CKSL1H470J	C CERA	SL 50V 47PF J
C831	CKSL1H330J	C CERA	SL 50V 33PF J
C832	CKSL1H330J	C CERA	SL 50V 33PF J
C835	CMXM1H103J	C MYLAR	50V 0.01MF J
C837	CKSL1H100J	C CERA	SL 50V 10PF J
C839	CEXE1A101A	C ELECTRO	10V 100PF RS
C840	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C841	CEXE1A101A	C ELECTRO	10V 100MF RS
C842	CEXE1A101A	C ELECTRO	10V 100MF RS
C845	CEXE1A101A	C ELECTRO	10V 100MF RS
C846	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C847	CEXE1A101A	C ELECTRO	10V 100MF RS
C849	CEXE1H338A	C ELECTRO	50V 0.33MF RS
C851	CXSL1H220J	C CERA	50V SL 22PF J
C853	CEXE1A101A	C ELECTRO	10V 100MF RS
C855	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C856	CKSL1H101J	C CERA	SL 25V 100PF J
C857	CEXE1A101A	C ELECTRO	10V 100MF RS
C858	CKSL1H101J	C CERA	SL50V 100PF J
C859	CEXE1H109A	C ELECTRO	50V 1MF RS
C860	CEXE1H109A	C ELECTRO	50V 1MF RS
C862	CEXE1H100A	C ELECTRO	16V 10MF RS
C866	CEXE1H470A	C ELECTRO	16V 47MF RS
C870	CMXM1H222J	C MYLAR	50V 2200PF J
C873	CEXE1A101A	C ELECTRO	10V 100MF RS
C875	CCKB1H121K	C CERA	HIKB 50V 120PF K
C878	CMXM1H122J	C MYLAR	50V 0.0012MF J
C879	CCKB1H121K	C CERA	HIKB 50V 120PF K
C880	CMXM1H102J	C MYLAR	50V 0.001MF J
C881	CEXE1H109A	C ELECTRO	50V 1MF RS
C882	CEXE1H109A	C ELECTRO	50V 1MF RS
C883	CCKB1H102K	C CERA	HIKB 50V 1000PF K
C884	CCKB1H102K	C CERA	HIKB 50V 1000PF K
D001	DKSS133	DIODE	1SS133
	D1N4148	DIODE	1N4148
D002	DKSS133	DIODE	1SS133

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
	D1N4148	DIODE	1N4148
D802	DKSS133	DIODE	1SS133
	D1N4148	DIODE	1N4148
D803	DKSS133	DIODE	1SS133
	D1N4148	DIODE	1N4148
D806	DKSS133	DIODE	1SS133
	D1N4148	DIODE	1N4148
D807	DKSS133	DIODE	1SS133
	D1N4148	DIODE	1N4148
Q801	TZTC1815Y	TR	KTC1815-Y
Q803	TZTC1815Y	TR	KTC1815-Y
Q807	TZTC1815Y	TR	KTC1815-Y
R001	RD-AZ471JK	R CARBON FILM	1/6 470 OHM J
R002	RD-AZ331JK	R CARBON FILM	1/6 330 OHM J
R003	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R004	RD-AZ105JK	R CARBON FILM	1/6 1M OHM J
R005	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R006	RD-AZ220JK	R CARBON FILM	1/6 22 OHM J
R007	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R008	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R009	RD-AZ222JK	R CARBON FILM	1/6 2.2K OHM J
R010	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R011	RD-AZ473JK	R CARBON FILM	1/6 47K OHM J
R012	RD-AZ473JK	R CARBON FILM	1/6 47K OHM J
R701	RD-AZ393JK	R CARBON FILM	1/6 39K OHM J
R703	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R704	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R705	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R707	RD-AZ2201F	R METAL FILM	1/6 2.2K OHM J
R708	RD-AZ332JK	R CARBON FILM	1/6 3.3K OHM J
R801	W581GY1005	WIRE JUMPER	AWG22 1/0.65 SN 10 AUTO
R803	RD-AZ184JK	R CARBON FILM	1/6 180K OHM J
R805	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R808	RD-AZ154JK	R CARBON FILM	1/6 150K OHM J
R809	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R810	RD-AZ333JK	R CARBON FILM	1/6 33K OHM J
R811	RD-AZ682JK	R CARBON FILM	1/6 6.8K OHM J
R812	RD-AZ683JK	R CARBON FILM	1/6 68K OHM J
R813	RD-AZ473JK	R CARBON FILM	1/6 47K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
R815	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R816	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R817	RD-AZ153JK	R CARBON FILM	1/6 15K OHM J
R818	RD-AZ681JK	R CARBON FILM	1/6 680K OHM J
R819	RD-AZ331JK	R CARBON FILM	1/6 330K OHM J
R820	RD-AZ224JK	R CARBON FILM	1/6 220K OHM J
R821	RD-AZ331JK	R CARBON FILM	1/6 330K OHM J
R822	RD-AZ273JK	R CARBON FILM	1/6 27K OHM J
R823	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R824	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R825	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R826	RD-AZ123JK	R CARBON FILM	1/6 12K OHM J
R827	RD-AZ682JK	R CARBON FILM	1/6 6.8K OHM J
R828	RD-AZ333JK	R CARBON FILM	1/6 33K OHM J
R829	RD-AZ393JK	R CARBON FILM	1/6 39K OHM J
R830	RD-AZ333JK	R CARBON FILM	1/6 33K OHM J
R831	RD-AZ393JK	R CARBON FILM	1/6 39K OHM J
R832	RD-4Z333JK	R CARBON FILM	1/6 33K OHM J
R833	RD-AZ393JK	R CARBON FILM	1/6 39K OHM J
R834	RD-4Z333JK	R CARBON FILM	1/6 33K OHM J
R835	RD-AZ393JK	R CARBON FILM	1/6 39K OHM J
R836	RD-AZ333JK	R CARBON FILM	1/6 33K OHM J
R837	RD-AZ184JK	R CARBON FILM	1/6 180K OHM J
R838	RD-AZ334JK	R CARBON FILM	1/6 330K OHM J
R839	RD-AZ683JK	R CARBON FILM	1/6 68K OHM J
R840	RD-AZ682JK	R CARBON FILM	1/6 6.8K OHM J
R841	RD-AZ123JK	R CARBON FILM	1/6 12K OHM J
R842	RD-AZ247JK	R CARBON FILM	1/6 270K OHM J
R843	RD-AZ123JK	R CARBON FILM	1/6 12K OHM J
R844	RD-AZ123JK	R CARBON FILM	1/6 12K OHM J
R845	RD-AZ153JK	R CARBON FILM	1/6 15K OHM J
R846	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R847	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R848	RD-AZ222JK	R CARBON FILM	1/6 2.2K OHM J
R849	RD-AZ564JK	R CARBON FILM	1/6 560K OHM J
R850	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R851	RD-AZ153JK	R CARBON FILM	1/6 15K OHM J
R852	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R853	RD-AZ823JK	R CARBON FILM	1/6 82K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
R854	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R855	RD-AZ154JK	R CARBON FILM	1/6 150K OHM J
R856	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R857	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R858	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R859	RD-4Z682JK	R CARBON FILM	1/6 6.8K OHM J
R860	RD-4Z103JK	R CARBON FILM	1/6 10K OHM J
R861	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R862	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J
R863	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J
R864	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J
R865	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J
R866	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J
R867	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J
R868	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R869	RD-AZ220JK	R CARBON FILM	1/6 22 OHM J
R871	RD-AZ122JK	R CARBON FILM	1/6 1.2K OHM J
R872	RD-AZ683JK	R CARBON FILM	1/6 68K OHM J
R873	RD-AZ122JK	R CARBON FILM	1/6 1.2K OHM J
R874	RD-AZ222JK	R CARBON FILM	1/6 2.2K OHM J
R875	RD-AZ122JK	R CARBON FILM	1/6 1.2K OHM J
R876	RD-AZ222JK	R CARBON FILM	1/6 2.2K OHM J
R877	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R878	RD-AZ122JK	R CARBON FILM	1/6 1.2K OHM J
R879L	RD-9AZ22JK	R CARBON FILM	1/6 22K OHM J
R879R	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R880L	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R880R	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R881L	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R881R	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R882L	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R882R	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R883L	RD-AZ332JK	R CARBON FILM	1/6 3.3K OHM J
R883R	RD-AZ332JK	R CARBON FILM	1/6 3.3K OHM J
R885	RD-4Z101JK	R CARBON FILM	1/4 100K OHM J
R886	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J
R887	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J
R888	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J
R889	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
R890	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J
R891	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J
R892	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R893	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R894	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R895	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R896	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J
R897	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R898	RD-AZ683JK	R CARBON FILM	1/6 68K OHM J

■ PCB CONTROL AS

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
12000	PAPCM1DB00	PCB CONTROL AS	ACD-250
CN301	9CD8867600	CONN AS	3P AWG28 350MM
CN501	9718867900	CONN AS	#28 5P (1P+1P SHIELD) 350MM
VR301	5V1503610A	VR ROTARY	RK16K12A0-50KAX2
VR302	5V1104500W	VR ROTARY	K161A0G-100KW
VR303	5V1104585B	VR ROTARY	K162J00-100KBX2
B001	9CD6502002	PCB CONTROL	ACD-250 W/PCB MAIN
C301L	CMXM1H473J	C MYLAR	50V 0.047MF J
C301R	CMXM1H473J	C MYLAR	50V 0.047MF J
C302L	CMXM1H109A	C ELECTRO	50V 1MF RS
C302R	CMXM1H109A	C ELECTRO	50V 1MF RS
C301L	RD-4Z332JK	R CARBON FILM	1/4 3.3K OHM J
R301R	RD-4Z152JK	R CARBON FILM	1/4 3.3K OHM J
R302L	RD-4Z472JK	R CARBON FILM	1/4 4.7K OHM J
R302R	RD-4Z472JK	R CARBON FILM	1/4 4.7K OHM J
R303L	RD-4Z152JK	R CARBON FILM	1/4 1.5K OHM J
R303R	RD-4Z152JK	R CARBON FILM	1/4 1.5K OHM J

■ PCB DECK AS

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
13000	PADKM1DB00	PCB DECK AS	ACD-250
CN504	9718868800	CONN AS	#28 2P (1P SHIELD) 300MM
C203L	CCYB1H102K	C CERA	HIKB 50V 0.001MF K
C203R	CCYB1H102K	C CERA	HIKB 50V 0.001MF K
C207L	CMYM1H472J	C MYLAR	50V 4700PF J
C207R	CMYM1H472J	C MYLAR	50V 4700PF J
C209R	CEYE1A470A	C ELECTRO	10V 47MF RS
C215	CMYM1H103J	C MYLAR	50V 0.01MF J
C221	CCYF1H223Z	C CERA	HIKF 50V 0.022MF Z
C222	CEYE1C100A	C ELECTRO	16V 10MF RS
C225	CMYM1H1222	C MYLAR	50V 2200PF J
C201	1TA7417P	IC	TA-7417P
	1KA2228	IC	KA2228
L201	5LU3910501	COIL FIXED	DD-455 390UH
R220	RD-4Z333J	R CARBON FILM	1/4 33K OHM J
SW201	5S30202807	SW SLIDE	2C-2P
C201	CEXE1A101A	C ELECTRO	10V 100MF RS
C202	CEXE1H109A	C ELECTRO	50V 1MF RS
C204	CEXE1H109A	C ELECTRO	50V 1MF RS
C205L	CMXM1H393J	C MYLAR	50V 0.039MF J
C205R	CMXM1H393	C MYLAR	50V 0.039MF J
C206	CMXM1H392J	C MYLAR	50V 0.0039MF J
C206R	CMXM1H392J	C MYLAR	50V 0.0039MF J
C208L	CMXM1H152J	C MYLAR	50V 1500PF J
C208R	CMXM1H152J	C MYLAR	50V 1500PF J
C209L	CEXE1A470A	C ELECTRO	10V 47MF RS
C210	CEXE1A470A	C ELECTRO	10V 47MF RS
C211	CEXE1A221A	C ELECTRO	10V 2200MF RS
C212L	CEXE1H109A	C ELECTRO	50V 1MF RS
C212R	CEXE1H109A	C ELECTRO	10V 1MF RS
C213	CEXE1H101A	C ELECTRO	10V 100MF RS
C214	CKSL1H101J	C CERA	SL 50V 100PF J
C216	CMXM1H272J	C MYLAR	50V 1700PF J
C217	CMXM1H183J	C MYLAR	50V 0.018MF J
C218	CCKB1H681K	C CERA	HIKB 50V 680PF K
C219	CCKB1H221K	C CERA	HIKB 50V 220PF K
C220	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C223L	CEXE1H109A	C ELECTRO	50V 1MF RS
C223R	CEXE1H109A	C ELECTRO	50V 1MF RS

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
Q201	TZTC1815Y	TR	KTC1815-Y
Q202	TZTC1815Y	TR	KTC1815-Y
Q203	TZTC1815Y	TR	KTC1815-Y
R201	RD-4Z101JK	R CARBON FILM	1/4 100 OHM J
R202	RD-4Z103JK	R CARBON FILM	1/4 10K OHM
R203	RD-4Z472JK	R CARBON FILM	1/4 4.7K OHM J
R204L	RD-AZ683JK	R CARBON FILM	1/4 68K OHM J
R204R	RD-AZ683JK	R CARBON FILM	1/4 68K OHM J
R205L	RD-AZ153JK	R CARBON FILM	1/4 15K OHM J
R205R	RD-AZ153JK	R CARBON FILM	1/4 15K OHM J
R206L	RD-4Z182JK	R CARBON FILM	1/4 1.8K OHM J
R206R	RD-4Z182JK	R CARBON FILM	1/4 1.8K OHM J
R207L	RD-4Z470JK	R CARBON FILM	1/4 47K OHM J
R207R	RD-4Z470JK	R CARBON FILM	1/4 47K OHM J
R208	RD-4Z225JK	R CARBON FILM	1/4 2.2M OHM J
R209L	RD-4Z102JK	R CARBON FILM	1/4 1K OHM J
R209R	RD-4Z102JK	R CARBON FILM	1/4 1K OHM J
R210L	RD-4Z102JK	R CARBON FILM	1/4 1K OHM J
R210R	RD-4Z102JK	R CARBON FILM	1/4 1K OHM J
R211L	RD-4Z473JK	R CARBON FILM	1/4 47K OHM J
R211R	RD-4Z473JK	R CARBON FILM	1/4 47K OHM J
R212	RD-4Z332JK	R CARBON FILM	1/4 3.3K OHM J
R213	RD-4Z121JK	R CARBON FILM	1/4 120K OHM J
R214	RD-4Z333JK	R CARBON FILM	1/4 33K OHM J
R215	RD-4Z569JK	R CARBON FILM	1/4 5.6K OHM J
R216	RD-4Z153JK	R CARBON FILM	1/4 15K OHM J
R219	RD-4Z222JK	R CARBON FILM	1/4 2.2K OHM J
R221L	RD-AZ182JK	R CARBON FILM	1/4 1.8K OHM J
R221R	RD-AZ182JK	R CARBON FILM	1/4 1.8K OHM J

■ PCB TUNER AS

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
14000	PATUMBDB00	PCB TUNER	ACD-250
C118	CEYE1C100A	C ELECTRO	16V 10MF RS
VC001	9737604400	VARICON POLY	P2S-22 BGJT-M
CF101	5PPFWB4	FILTER	PEWB4
CF102	5PE107MA5A	FILTER CERA	SPE 10.7MA5A RED
CF103	5PU455B	FILTER CERA	SFU-455B
CN102	9718841300	CONN AS	2P 200MM
CN201	9CD8862000	CONN AS	8P AWG26 UL1007 K200M/M
CN502	9718868400	CONN AS	AWG26 6P 350MM
C125	CSYS1H102J	C STYROL	50V 1000PF J
C126L	CEYE1H109A	C ELECTRO	50V 1MF RS
C127L	CMYM1H333K	C MYLAR	50V 0.033MF K
C123	CCYF1H223Z	C CERA	HIKF 50V 0.022MF Z
C137	CCYF1H223Z	C CERA	HIKF 50V 0.022MF Z
C138	CCYB1H102K	C CERA	HIKB 50V 0.001MF K
C601	CEYE1C100A	C ELECTRO	16V 10MF RS
D102	D1SS133	DIODE	1SS133
C104	DULPR55B50	LED	ULP-R55B-50 2×5
C105	DLDS2236	DIODE	KDS-2236
D901	DKTZ9R1A	DIODE ZENER	MTZ-0.1 26MM TAPPING
IC101	1K1A7358AP	IC	KIA 7358AP
C102	1K1A7640AP	IC	KIA 7640AP
C103	1K1A7343AP	IC	KIA 7343AP
LW103	W1440R8007	WIRE LEAD 1007	AWG26 7/0.16
LW104	W144BK1017	WIRE LEAD 1007	AWG26 7/0.16
LW105	W144WH6007	WIRE LEAD 1007	AWG26 7/0.16
L101	5LA0000441	COIL FM ANT	W0.7×D3.3×T4.5
L102	5L00000524	COIL FM OSC	W0.7×D3.5×T3.5
L103	5LA000K806	ANT AM BAR AS	FA92-3001
Q601	TKTA1015Y	TR	KTA1015-Y
Q603	TKTC1815Y	TR	KTC1815-Y
Q903	TKTC2236Y	TR	KTC2236A-Y
RV101	RV5417103E	R SEMI FIXED	RH-0615C 10KB H-TYPE
SW101	5S30402220	SW SLIDE	004201168B 4C-2P
SW102	5S30403002	SW SLIDE	0043141 4C-3P
SW601	5S30603112	SW SLIDE	00630480 6C-3P
T101	5107FVT333	IFT FM IF	7×7SQ 1000FI
T102	5107AYW314	IFT FM IF	KIS-014-53f14 (5314)
T103	5107FGN334	IFT FM DET	7×7 GN 1000FDI

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
T104	5107ACL335	IFT AM DET	7×7 GN 1000GD1
T105	5107ARD336	IFT AM OSC	7×7 RD 1000AO1
B001	9CD6502001	C CERA	HIKF 25V 0.022MF M
C102	CXCH1H330J	C CERA	50V CH 33PF J
C103	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C104	CKCH1H409	C CERA	CH 50V 4PF K
C105	CKCH1H220J	C CERA	CH 50V 22PF J
C106	CKCH1H150J	C CERA	CH 50V 15PF J
C107	CXRH1H200J	C CERA	RH 50V 20PF J
C108	CKCH1H409K	C CERA	CH 50V 4PF K
C109	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C110	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C111	CEXE1H478A	C ELECTRO	50V 0.47MF RS
C113	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C114	CEXE1A101A	C ELECTRO	10V 100MF RS
C115	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C116	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C117	CCKB1H151K	C CERA	HIKF 50V 150PF K
C119	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C120	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C121	CEXE1C100A	C ELECTRO	16V 10MF RS
C123	CEXE1H109A	C ELECTRO	50V 1MF RS
C124	CEXE1H339A	C ELECTRO	50V 3.3MF RS
C126R	CEXE1H109A	C ELECTRO	50V 1MF RS
C127R	CMXM1H333K	C MULAR	50V 0.033MF K
C130	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C131	CKRH1H209M	C CERA	RH 50V 2PF M
C133	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C135	CEXE1H109A	C ELECTRO	50V 1MF RS
C136	CEXE1H109A	C ELECTRO	50V 1MF RS
C140	CEXE1A100A	C ELECTRO	50V 10MF RS
C602	CEXE1H109A	C ELECTRO	50V 1MF RS
C603	CEXE1H228A	C ELECTRO	50V 0.22MF RS
R901	CEXE1C470A	C ELECTRO	16V 47MF RS
C902	CEXE1C100A	C ELECTRO	16V 10MF RS
D101	D1SS133	DIODE	1SS133
C103	D1SS133	DIODE	1SS133
JW000	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
Q101	TZTC1815Y	TR	KTC1815-Y

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
Q602	TZTC1815Y	TR	KTC1815-Y
Q604	TZTC1815Y	TR	KTC1815-Y
R101	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R102	RD-4Z100JK	R CARBON FILM	1/4 10 OHM J
R103	RD-4Z391JK	R CARBON FILM	1/4 390 OHM J
R104	RD-4Z104JK	R CARBON FILM	1/4 100K OHM J
R105	RD-AZ473JK	R CARBON FILM	1/6 47K OHM J
R106	RD-4Z821JK	R CARBON FILM	1/4 820 OHM J
R107	RD-AZ224JK	R CARBON FILM	1/6 220K OHM J
R108	RD-AZ151JK	R CARBON FILM	1/6 150 OHM J
R109	RD-4Z181JK	R CARBON FILM	1/4 180 OHM J
R111	RD-AZ472JK	R CARBON FILM	1/6 100K OHM J
R112	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R114	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R115	RD-AZ682JK	R CARBON FILM	1/6 6.8K OHM J
R116	RD-AZ224JK	R CARBON FILM	1/6 22K OHM J
R117R	RD-AZ332JK	R CARBON FILM	1/6 3.3K OHM J
R118L	RD-4Z472JK	R CARBON FILM	1/4 4.7 OHM J
R118R	RD-4Z472JK	R CARBON FILM	1/4 4.7K OHM J
R119L	RD-4Z103JK	R CARBON FILM	1/4 10K OHM J
R119R	RD-4Z103JK	R CARBON FILM	1/4 10K OHM J
R120	RD-AZ561JK	R CARBON FILM	1/6 560 OHM J
R121	RD-AZ470JK	R CARBON FILM	1/6 47 OHM J
R122	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R123	RD-AZ561JK	R CARBON FILM	1/6 560 OHM J
R150	RD-AZ333JK	R CARBON FILM	1/6 33K OHM J
R153	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R217	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R218	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R601	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R602	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R603	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R605	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R606	RD-AZ124JK	R CARBON FILM	1/6 120K OHM J
R607	RD-AZ124JK	R CARBON FILM	1/6 120K OHM J
R608	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R609L	RD-4Z103JK	R CARBON FILM	1/4 10K OHM J
R609R	RD-4Z103JK	R CARBON FILM	1/4 10K OHM J
R610L	RD-AZ473JK	R CARBON FILM	1/6 47K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
R610R	RD-AZ473JK	R CARBON FILM	1/6 47K OHM J
R611L	RD-AZ473JK	R CARBON FILM	1/6 47K OHM J
R611R	RD-AZ473JK	R CARBON FILM	1/6 47K OHM J
R612L	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R612R	RD-Az183JK	R CARBON FILM	1/6 18K OHM J
R903	RD-AZ471JK	R CARBON FILM	1/6 470K OHM J

■ PCB DISPLAY AS

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
15000	PADPMBDB00	PCB DISPLAY AS	ACD-250
LCD01	DLTP7D9033	LCD	LTP7D-9033A
CN801	9718871900	CONN AS	12P 250MM BOARD IN TYPE
CN802	9718872900	CONN AS	15P 250MM BOARD IN TYPE
SW801	5S40201153	SW TACT	KHH15906 2C-1P
SW802	5S40201153	SW TACT	KHH15906 2C-1P
SW803	5S40201153	SW TACT	KHH15906 2C-1P
SW804	5S40201153	SW TACT	KHH15906 2C-1P
SW805	5S40201153	SW TACT	KHH15906 2C-1P
B001	9CD6502101	PCB DISPLAY	ACD-W/PCB CD

■ PCB SW AS

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
16000	PASWM1DB00	PCB SW AS	ACD-250
B001	9CD6502102	PCB SW CLT	ACD-250 W/PCB CD
LW806	W144022017	WIRE RIBBON	AWG26 7/0.16 2P 10-200-10
SW806	5S70102214	SW MICRO	KMA-1214 P2 1C-2P

■ FRONT AS

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
CN503	9718868700	CONN AS	AWG24 4P 450MM
SP01	9718505803	SPEAKER	4 INCH 8 OHM (CONN..BK)

■ CABI BACK AS

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
19000	PABCCADB00	CABI BACK AS	ACD-250
CN001	9718835500	CONN AS	1P 260MM WH
LW502	9CD8863900	CONN AS	1P DIA 1007 #24 200MM RD
LW503	9CD8860900	CONN AS	1P DIA 1007 #24 200MM BK

■ DECK MECHA AS

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
2000	PADKSWDB00	DECK MECHA AS	ACD-250
CN601	9CD8861600	CONN AS	3P AWG26 UL1007 300MM
CN602	9718868300	CONN AS	#28 (1P+2P SHIELD) 5P 200MM
CN609	9718835400	CONN AS	1P PI3.5 RING BK 110MM
LW201	W144BK1014	WIRE LEAD 1007	AWG26 7/0.16 BK 3-100-5
LW202	W144OR1014	WIRE LEAD 1007	AWG26 7/0.16 OR 3-100-5
00010	9CD6000900	DECK MECHANISM	ADR-1146 FB
	9736006900	DECK MECHANISM	TN-21SB-1593